

DESIGN MISCELLANEOUS

EXGS

PATENT OFFICE

CATALOG NO. 64

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NOV 10 1934

DIVISIONS E1 & E2

LEE BROTHERS CORPORATION

CAST BRONZE FITTINGS AND VALVES

RETURN TO
DESIGN DIV.

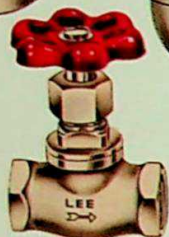


LEE BROTHERS CORPORATION / ANNISTON, ALABAMA

A.I.A. FILE NO. 29-B-4



LEE'S CARE AT THE FOUNDRY HELPS YOU MAKE SATISFIED CUSTOMERS ON THE JOB



You get more than a valve or a fitting when you buy a Lee product. You also get a lot of care . . . care in engineering, in manufacturing, in inspection . . . and in distribution. It's the kind of care that *guarantees* your satisfaction with Lee valves and fittings — the kind of care that helps you get, and keep, *satisfied* customers.

This care takes many forms; it shows up in the way we have provided our foundry in Anniston, Alabama, with the most advanced equipment to cast, machine, inspect and test the brass and bronze products in the

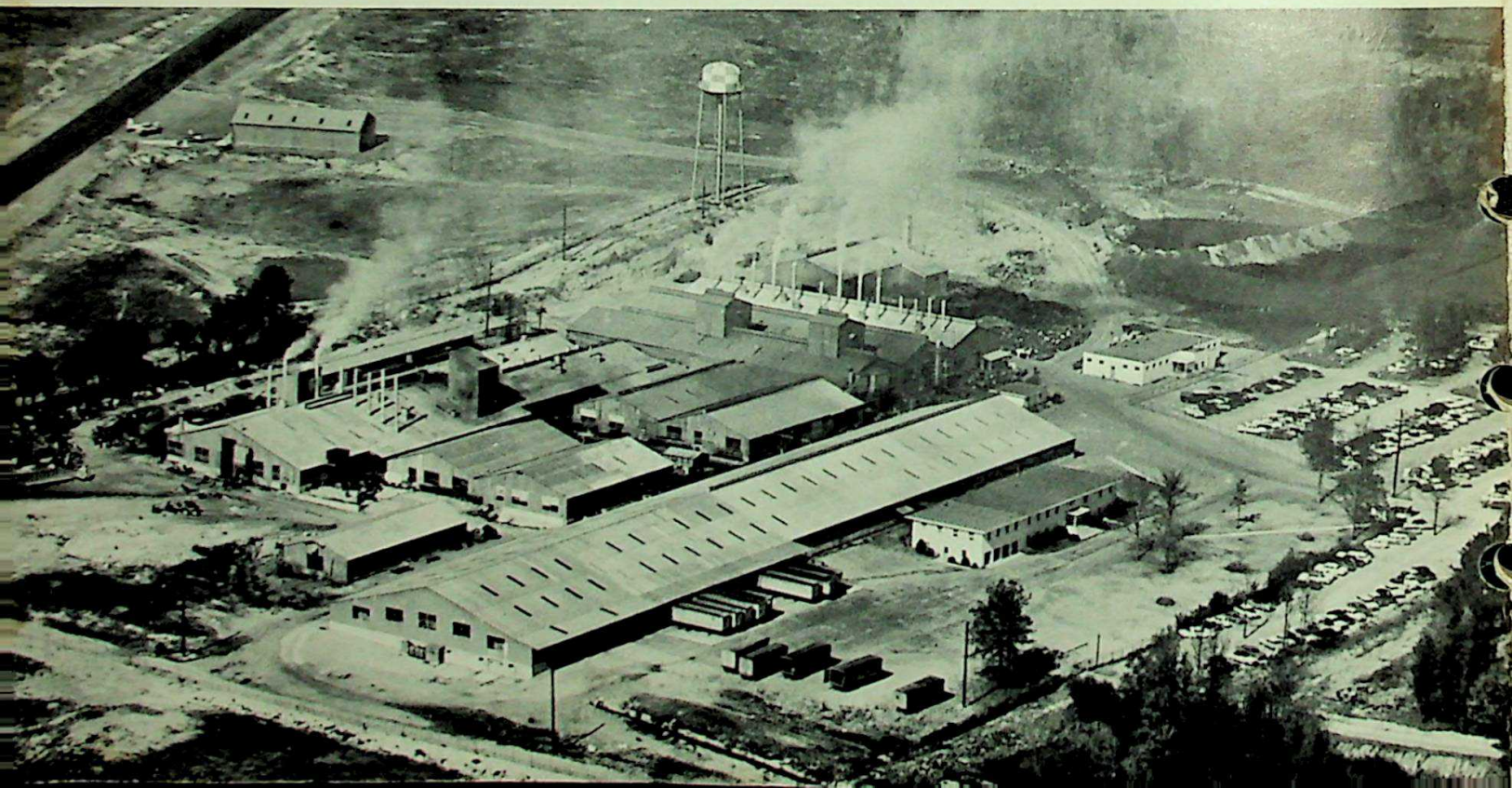
Lee line. It shows up in the intensive quality control program we maintain to insure the integrity of our products. (This involves checking materials *before* casting, keeping patterns and equipment in top condition, thoroughly cleaning and inspecting castings

before machining, checking the finished surfaces on the latest production gauging equipment.)

Lee care shows up in a unique pressure test devised by our engineers. Here, each fitting, *including cast drainage fittings*, is attached to a special fixture, immersed in water and charged with air at 100 psi. Even the smallest pinhole can be detected in this way — and each Lee valve and fitting must pass this pressure test before we pack it and ship it.

At Lee, we've cared enough about our business — and about our customers — to supply nothing but a superior product, at industry published prices, for over 40 years. We believe that, if we design with intelligence, manufacture with exactness and prove the quality of every valve and fitting—our products will *always* provide the customer with a trouble-free, leak-proof installation.

If you care about the very best in fittings and valves . . . specify — LEE.



CATALOG NO. 64

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TERMINOLOGY used in this catalog has been agreed upon among manufacturer members of The Pipe Fittings Manufacturers Association and Manufacturers Standardization Society of The Valve and Fittings Industry.

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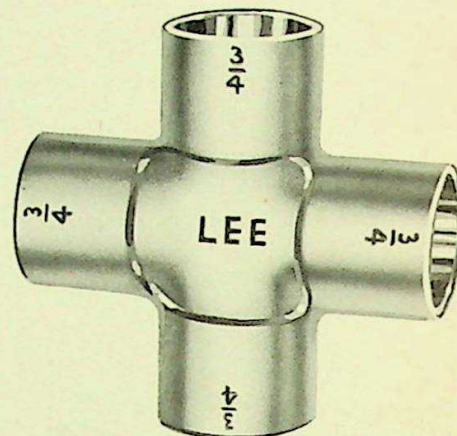
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LEE cast bronze fittings are manufactured to conform to American Standards Association specification B-16.18-1963. Modern casting techniques are used to assure consistency and eliminate porosity in these fittings.

Machined surfaces on all LEE fittings are finished with a small chamfer that facilitates assembly and promotes the even distribution of solder. Careful attention to manufacturing tolerances produces just the right clearance to provide proper capillary action for a solid solder joint.

At Lee Brothers Corporation, the latest engineering, casting, machining, inspection and packaging practices are combined to give you the best available fittings.

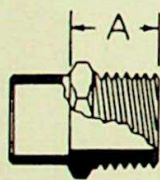
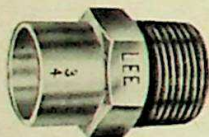
When ordering, please refer to figure numbers.



ADAPTERS

10-101

C x M



Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
$\frac{3}{8}$	50	900	.06	$\frac{5}{8}$
$\frac{3}{8} \times \frac{1}{2}$	100	400	.09	$\frac{3}{4}$
$\frac{3}{8} \times \frac{1}{4}$	50	900	.05	$\frac{5}{8}$
$\frac{1}{2}$	100	1000	.08	$\frac{5}{8}$
$\frac{1}{2} \times 1\frac{1}{4}$	20	120	.42	$1\frac{1}{32}$
$\frac{1}{2} \times 1$	30	180	.28	$1\frac{1}{16}$
$\frac{1}{2} \times \frac{3}{4}$	50	300	.12	$\frac{7}{8}$
$\frac{1}{2} \times \frac{3}{8}$	100	400	.08	$1\frac{1}{16}$
$\frac{1}{2} \times \frac{1}{4}$	40	720	.07	$1\frac{1}{16}$
$\frac{3}{4}$	50	500	.16	$\frac{7}{8}$
$\frac{3}{4} \times 1\frac{1}{4}$	20	120	.47	$1\frac{1}{32}$
$\frac{3}{4} \times 1$	25	150	.25	$1\frac{1}{16}$
$\frac{3}{4} \times \frac{1}{2}$	30	360	.15	$2\frac{1}{32}$
$\frac{3}{4} \times \frac{3}{8}$	30	360	.11	$2\frac{1}{32}$
1	25	250	.27	$1\frac{1}{16}$
1 x 2	10	30	.94	$1\frac{1}{16}$
1 x $1\frac{1}{2}$	15	45	.62	$1\frac{1}{4}$

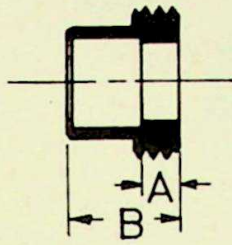
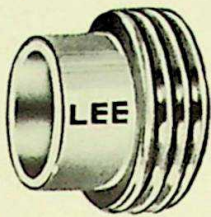
10-101 (CONTINUED)

Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
1 x $1\frac{1}{4}$	20	60	.47	$1\frac{1}{4}$
1 x $\frac{3}{4}$	25	150	.22	$\frac{7}{8}$
1 x $\frac{1}{2}$	30	180	.23	$\frac{5}{8}$
$1\frac{1}{4}$	25	100	.40	1
$1\frac{1}{4} \times 2$	—	40	.92	$1\frac{11}{32}$
$1\frac{1}{4} \times 1\frac{1}{2}$	15	45	.62	$1\frac{9}{32}$
$1\frac{1}{4} \times 1$	15	90	.36	$1\frac{1}{8}$
$1\frac{1}{4} \times \frac{3}{4}$	—	125	.30	$1\frac{15}{16}$
$1\frac{1}{2}$	—	150	.51	1
$1\frac{1}{2} \times 2$	—	40	.94	$1\frac{15}{16}$
$1\frac{1}{2} \times 1\frac{1}{4}$	15	45	.52	$1\frac{3}{16}$
$1\frac{1}{2} \times 1$	15	90	.47	1
2	—	75	.73	$1\frac{1}{16}$
2 x $1\frac{1}{2}$	—	75	.85	$1\frac{9}{32}$
2 x $1\frac{1}{4}$	—	30	.87	$1\frac{1}{16}$
2 x 1	—	40	.84	$1\frac{1}{8}$
$2\frac{1}{2}$	—	20	1.50	$1\frac{3}{8}$
$2\frac{1}{2} \times 3$	—	30	1.89	$1\frac{1}{2}$
$2\frac{1}{2} \times 2$	—	50	1.15	$1\frac{1}{4}$
3	—	25	2.18	$1\frac{1}{2}$
3 x 4	—	10	3.20	$1\frac{11}{16}$
3 x $2\frac{1}{2}$	—	20	1.72	$1\frac{15}{32}$
3 x 2	—	20	1.76	$1\frac{13}{32}$
$3\frac{1}{2}$	—	15	3.06	$1\frac{19}{32}$
4	—	12	3.80	$1\frac{11}{16}$
5	—	8	7.00	$1\frac{7}{8}$
6	—	4	10.50	2

HOSE ADAPTERS

10-102

C x HOSE THREAD

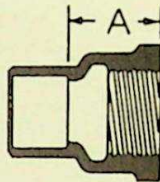
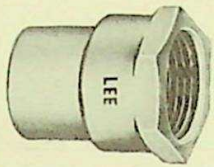


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
1/2 x 3/4	—	—	.07	1/4

ADAPTERS

10-105

C x F

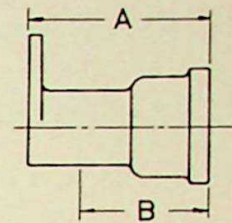
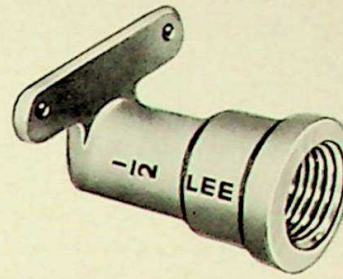


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
3/8	50	450	.09	5/8
3/8 x 1/2	40	360	.12	7/8
3/8 x 1/4	40	720	.07	3/4
1/2	100	600	.11	3/4
1/2 x 1	25	150	.31	1 1/8
1/2 x 3/4	50	300	.16	13/16
1/2 x 3/8	50	450	.07	9/16
1/2 x 1/4	50	450	.07	9/16
3/4	40	400	.18	7/8
3/4 x 1	25	150	.32	1 1/8
3/4 x 1/2	50	200	.12	11/16
1	25	150	.30	15/16
1 x 1 1/4	15	90	.50	1 3/32
1 x 3/4	25	100	.21	1 1/16
1 x 1/2	35	140	.21	25/32
1 1/4	—	85	.43	1
1 1/4 x 1 1/2	—	50	.65	1 1/32
1 1/4 x 1	20	60	.40	1 1/32
1 1/4 x 3/4	20	60	.34	29/32
1 1/2	—	50	.55	1
1 1/2 x 2	—	35	1.10	1 1/16
1 1/2 x 1 1/4	15	45	.54	1 3/32
1 1/2 x 1	20	60	.50	1 1/32
2	—	40	.84	1 1/16
2 x 1 1/2	—	25	1.10	1 1/8
2 x 1 1/4	30	60	.74	1 3/32
2 x 1	30	60	.70	1 1/32
2 1/2	—	16	1.74	1 3/8
3	—	12	2.20	1 13/32
4	—	12	4.32	1 11/16
5	—	6	8.25	1 7/8
6	—	4	12.00	2

HI-EAR ADAPTERS

14-105

C x F

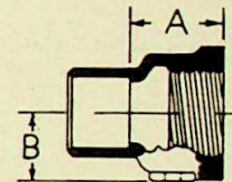
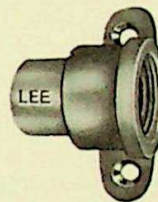


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	—	—	—	1 3/4	1 1/4

DROP ADAPTERS

10-106

C x F

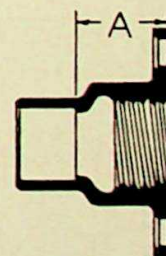


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	50	300	.18	3/4	23/32

WING ADAPTERS

10-107

C x F

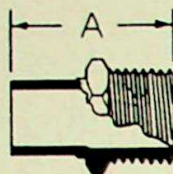
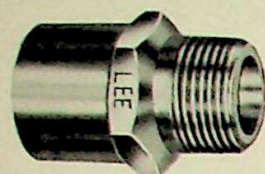


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
1/2	50	300	.15	3/4

FITTING ADAPTERS

10-114

Fig. x M

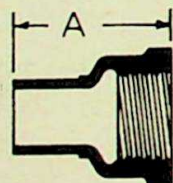


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
$\frac{3}{8}$	50	900	.06	$1\frac{5}{32}$
$\frac{1}{2}$	100	600	.11	$1\frac{3}{8}$
$\frac{1}{2} \times \frac{3}{4}$	30	270	.15	$1\frac{7}{16}$
$\frac{1}{2} \times \frac{3}{8}$	100	900	.07	$1\frac{3}{16}$
$\frac{3}{4}$	50	300	.16	$1\frac{23}{32}$
$\frac{3}{4} \times \frac{1}{2}$	30	270	.11	$1\frac{5}{8}$
1	25	150	.27	$2\frac{1}{8}$
1 x $\frac{3}{4}$	40	240	.19	$1\frac{7}{8}$
$1\frac{1}{4}$	15	90	.46	$2\frac{9}{32}$
$1\frac{1}{4} \times 1\frac{1}{2}$	12	72	.52	$2\frac{3}{16}$
$1\frac{1}{4} \times 1$	15	90	.29	$2\frac{1}{16}$
$1\frac{1}{2}$	10	60	.55	$2\frac{15}{32}$
2	—	30	.90	$2\frac{13}{16}$
$2\frac{1}{2}$	15	30	1.35	$3\frac{5}{32}$
$2\frac{1}{2} \times 2$	20	40	.95	$2\frac{7}{8}$
$2\frac{1}{2} \times 1\frac{1}{2}$	25	50	.95	$2\frac{15}{16}$
$2\frac{1}{2} \times 1\frac{1}{4}$	25	50	.84	$2\frac{15}{16}$
3	—	12	2.25	$3\frac{7}{16}$
4	—	12	3.42	$4\frac{1}{32}$
4 x $2\frac{1}{2}$	—	12	2.55	$4\frac{3}{32}$
4 x 2	—	12	2.46	$3\frac{31}{32}$

FITTING ADAPTERS

10-115

FTG. x F

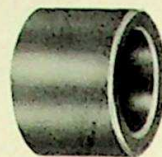


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
$\frac{3}{8}$	50	450	.09	$1\frac{1}{8}$
$\frac{1}{2}$	40	360	.12	$1\frac{3}{8}$
$\frac{1}{2} \times \frac{3}{4}$	20	180	.19	$1\frac{7}{16}$
$\frac{1}{2} \times \frac{3}{8}$	50	450	.08	$1\frac{3}{16}$
$\frac{3}{4}$	40	240	.20	$1\frac{5}{8}$
$\frac{3}{4} \times 1$	25	150	.30	$1\frac{13}{16}$
$\frac{3}{4} \times \frac{1}{2}$	25	225	.14	$1\frac{9}{16}$
1	25	150	.33	$1\frac{29}{32}$
$1\frac{1}{4}$	20	60	.51	$2\frac{3}{16}$
$1\frac{1}{2}$	15	45	.63	$2\frac{11}{32}$
2	—	20	.98	$2\frac{23}{32}$
$2\frac{1}{2}$	12	24	1.75	3
3	9	18	2.40	$3\frac{3}{8}$
3 x 2	15	30	1.42	$3\frac{1}{32}$

FLUSH BUSHINGS

10-140

FTG. x C

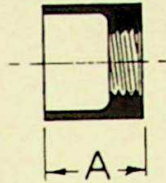
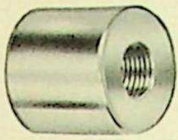


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
$\frac{3}{8} \times \frac{1}{4}$	300	5400	.01	$\frac{3}{8}$
$\frac{1}{2} \times \frac{3}{8}$	100	1800	.02	$\frac{1}{2}$
$\frac{1}{2} \times \frac{1}{4}$	100	1800	.03	$\frac{1}{2}$
$\frac{3}{4} \times \frac{1}{2}$	50	900	.07	$\frac{3}{4}$
$\frac{3}{4} \times \frac{3}{8}$	50	900	.10	$\frac{3}{4}$
$\frac{3}{4} \times \frac{1}{4}$	40	720	.12	$\frac{3}{4}$
1 x $\frac{3}{4}$	20	360	.12	$2\frac{9}{32}$
1 x $\frac{1}{2}$	20	360	.20	$2\frac{9}{32}$
1 x $\frac{3}{8}$	20	360	.24	$2\frac{9}{32}$
$1\frac{1}{4} \times 1$	25	225	.16	$3\frac{1}{32}$
$1\frac{1}{4} \times \frac{3}{4}$	25	225	.27	$3\frac{1}{32}$
$1\frac{1}{4} \times \frac{1}{2}$	25	225	.36	$3\frac{1}{32}$
$1\frac{1}{4} \times \frac{3}{8}$	25	225	.40	$3\frac{1}{32}$
$1\frac{1}{2} \times 1\frac{1}{4}$	15	135	.20	$1\frac{3}{32}$
$1\frac{1}{2} \times 1$	15	135	.37	$1\frac{3}{32}$
$1\frac{1}{2} \times \frac{3}{4}$	15	135	.51	$1\frac{3}{32}$
$1\frac{1}{2} \times \frac{1}{2}$	8	144	.60	$1\frac{3}{32}$
$1\frac{1}{2} \times \frac{3}{8}$	8	144	.64	$1\frac{3}{32}$
2 x $1\frac{1}{2}$	10	90	.62	$1\frac{11}{32}$
2 x $1\frac{1}{4}$	10	90	.87	$1\frac{11}{32}$
2 x 1	10	90	1.05	$1\frac{11}{32}$
2 x $\frac{3}{4}$	4	72	1.20	$1\frac{11}{32}$
2 x $\frac{1}{2}$	4	72	1.35	$1\frac{11}{32}$
2 x $\frac{3}{8}$	4	72	1.40	$1\frac{11}{32}$
$2\frac{1}{2} \times 2$	5	45	1.00	$1\frac{15}{32}$
$2\frac{1}{2} \times 1\frac{1}{2}$	5	45	1.38	$1\frac{15}{32}$
$2\frac{1}{2} \times 1\frac{1}{4}$	5	45	1.58	$1\frac{15}{32}$
$2\frac{1}{2} \times 1$	5	45	1.72	$1\frac{15}{32}$
$2\frac{1}{2} \times \frac{3}{4}$	5	45	1.88	$1\frac{15}{32}$
$2\frac{1}{2} \times \frac{1}{2}$	5	45	2.00	$1\frac{15}{32}$
3 x $2\frac{1}{2}$	6	24	1.12	$1\frac{21}{32}$
3 x 2	6	24	1.92	$1\frac{21}{32}$
3 x $1\frac{1}{2}$	6	24	2.00	$1\frac{21}{32}$
3 x $1\frac{1}{4}$	6	24	2.40	$1\frac{21}{32}$
3 x 1	6	24	2.60	$1\frac{21}{32}$
3 x $\frac{3}{4}$	6	24	2.50	$1\frac{21}{32}$
3 x $\frac{1}{2}$	6	24	2.75	$1\frac{21}{32}$
$3\frac{1}{2} \times 3$	—	20	1.65	$1\frac{29}{32}$
4 x $3\frac{1}{2}$	—	—	2.00	$2\frac{5}{32}$
4 x 3	—	—	4.75	$2\frac{5}{32}$
4 x $2\frac{1}{2}$	—	—	4.50	$2\frac{5}{32}$
4 x 2	—	—	5.13	$2\frac{5}{32}$
5 x 4	—	—	5.75	$2\frac{21}{32}$
5 x 3	—	—	8.00	$2\frac{21}{32}$
5 x $1\frac{1}{4}$	—	—	8.50	$2\frac{21}{32}$
6 x 5	—	—	8.75	$3\frac{3}{32}$
6 x 4	—	—	12.50	$3\frac{3}{32}$

FLUSH BUSHINGS

10-142

FTG. x F

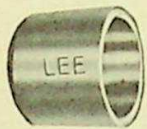


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
$\frac{1}{2}$ x $\frac{1}{8}$	150	2700	.02	$\frac{1}{2}$
$\frac{3}{4}$ x $\frac{1}{8}$	50	900	.06	$\frac{3}{4}$

CAPS

10-154

C



Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
$\frac{3}{8}$	100	1800	.02	$\frac{1}{2}$
$\frac{1}{2}$	50	900	.04	$\frac{19}{32}$
$\frac{3}{4}$	100	600	.10	$\frac{7}{8}$
1	20	180	.16	$1\frac{1}{4}$
$1\frac{1}{4}$	25	150	.18	$1\frac{3}{8}$
$1\frac{1}{2}$	20	120	.31	$1\frac{3}{4}$
2	12	36	.69	$1\frac{27}{32}$
$2\frac{1}{2}$	8	48	.97	$2\frac{5}{32}$
3	20	40	1.60	$2\frac{3}{8}$
4	—	10	3.13	$3\frac{1}{8}$

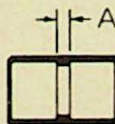
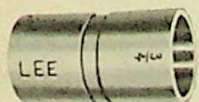
10-165 (CONTINUED)

Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
$\frac{3}{4}$ x $\frac{1}{2}$	50	300	.12	$\frac{5}{16}$
$\frac{3}{4}$ x $\frac{3}{8}$	30	270	.10	$\frac{5}{16}$
1	25	150	.22	$\frac{1}{8}$
1 x $\frac{3}{4}$	25	150	.23	$\frac{3}{8}$
1 x $\frac{1}{2}$	25	150	.19	$\frac{3}{8}$
$1\frac{1}{4}$	25	75	.32	$\frac{1}{8}$
$1\frac{1}{4}$ x 1	20	120	.31	$\frac{3}{8}$
$1\frac{1}{4}$ x $\frac{3}{4}$	20	120	.27	$\frac{3}{8}$
$1\frac{1}{4}$ x $\frac{1}{2}$	25	150	.29	$\frac{3}{8}$
$1\frac{1}{2}$	15	90	.43	$\frac{1}{8}$
$1\frac{1}{2}$ x $1\frac{1}{4}$	12	72	.41	$\frac{3}{8}$
$1\frac{1}{2}$ x 1	12	72	.39	$\frac{3}{8}$
$1\frac{1}{2}$ x $\frac{3}{4}$	15	90	.36	$\frac{7}{16}$
$1\frac{1}{2}$ x $\frac{1}{2}$	15	90	.34	$\frac{7}{16}$
2	6	36	.76	$\frac{3}{16}$
2 x $1\frac{1}{2}$	12	36	.70	$\frac{1}{2}$
2 x $1\frac{1}{4}$	12	36	.64	$\frac{1}{2}$
2 x 1	12	36	.61	$\frac{1}{2}$
2 x $\frac{3}{4}$	12	36	.56	$\frac{1}{2}$
2 x $\frac{1}{2}$	12	36	.60	$\frac{1}{2}$
$2\frac{1}{2}$	—	20	1.17	$\frac{3}{16}$
$2\frac{1}{2}$ x 2	—	20	1.24	$\frac{9}{16}$
$2\frac{1}{2}$ x $1\frac{1}{2}$	—	24	.96	$\frac{9}{16}$
$2\frac{1}{2}$ x $1\frac{1}{4}$	—	24	.96	$\frac{5}{8}$
3	—	12	1.71	$\frac{19}{32}$
3 x $2\frac{1}{2}$	—	12	1.65	$\frac{5}{8}$
3 x 2	—	12	1.55	$\frac{5}{8}$
3 x $1\frac{1}{2}$	—	12	1.36	$\frac{5}{8}$
$3\frac{1}{2}$	—	10	2.26	$\frac{1}{4}$
4	—	14	3.45	$\frac{19}{32}$
4 x 3	—	14	3.15	$\frac{11}{16}$
4 x $2\frac{1}{2}$	—	14	3.07	$1\frac{1}{8}$
4 x 2	—	14	2.85	$\frac{13}{16}$
5	—	6	6.20	$\frac{1}{4}$
6	—	3	10.00	$\frac{1}{4}$
6 x 4	—	4	9.00	$1\frac{5}{16}$

COUPLINGS

10-165

C x C

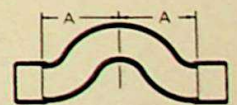
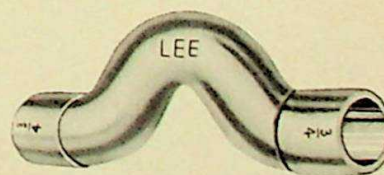


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
$\frac{3}{8}$	50	900	.04	$\frac{1}{16}$
$\frac{1}{2}$	100	1000	.06	$\frac{1}{8}$
$\frac{1}{2}$ x $\frac{3}{8}$	50	450	.06	$\frac{5}{16}$
$\frac{1}{2}$ x $\frac{1}{4}$	40	720	.05	$\frac{5}{16}$
$\frac{3}{4}$	50	500	.13	$\frac{1}{8}$

CROSSOVERS

10-167

C x C

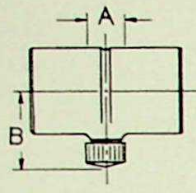
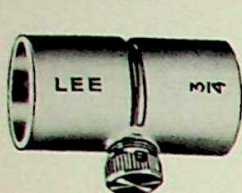


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
$\frac{1}{2}$	30	180	.26	$\frac{15}{16}$
$\frac{3}{4}$	10	60	.51	$\frac{15}{8}$

COPPER DRAIN COUPLINGS

10-175

C x C WITH DRAIN CAP

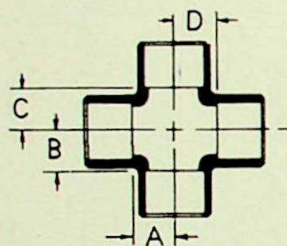
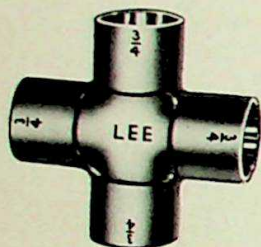


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	—	—	.08	1/4	13/16
3/4	—	—	.14	1/4	31/32

CROSSES

10-195

C x C x C x C

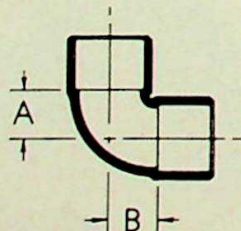
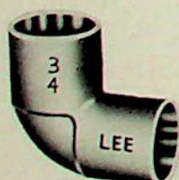


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
3/8	40	360	.08	11/32	11/32	11/32	11/32
1/2	20	180	.16	15/32	15/32	15/32	15/32
3/4	15	90	.33	19/32	19/32	19/32	19/32
1	8	48	.64	25/32	25/32	25/32	25/32
1 1/4	—	25	.79	29/32	29/32	29/32	29/32
1 1/2	—	20	1.12	1 1/32	1 1/32	1 1/32	1 1/32
2	—	8	2.10	1 5/16	1 5/16	1 5/16	1 5/16
2 1/2	—	6	2.94	1 9/16	1 9/16	1 9/16	1 9/16
3	—	8	4.00	1 13/16	1 13/16	1 13/16	1 13/16
4x4x2x2	—	5	4.60	2 1/4	1 1/4	1 1/4	2 1/4
4x3x2x2	—	5	4.50	2 1/4	1 1/4	1 1/4	1 1/4

90° ELLS

10-235

C x C



Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8	100	900	.05	5/16	5/16

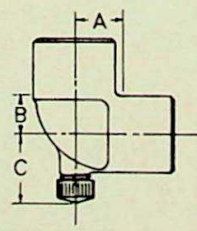
10-235 (CONTINUED)

Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8 x 1/4	—	—	—	9/32	11/32
1/2	100	1000	.08	3/8	3/8
1/2 x 3/8	100	600	.12	5/16	3/8
3/4	40	400	.17	1/2	1/2
3/4 x 1/2	50	300	.14	3/8	1/2
3/4 x 3/8	25	225	.12	3/8	9/16
1	20	200	.31	11/16	11/16
1 x 3/4	25	150	.32	5/8	3/4
1 x 1/2	25	150	.24	1/2	3/4
1 1/4	—	75	.45	13/16	13/16
1 1/4 x 1	20	60	.40	11/16	13/16
1 1/4 x 3/4	15	90	.40	5/8	7/8
1 1/4 x 1/2	20	120	.34	1/2	7/8
1 1/2	—	100	.65	15/16	15/16
1 1/2 x 1 1/4	8	48	.64	7/8	1
1 1/2 x 1	10	60	.52	3/4	1
1 1/2 x 3/4	12	72	.51	5/8	1
1 1/2 x 1/2	12	72	.43	1/2	1
2	—	40	1.17	13/16	13/16
2 x 1 1/2	—	25	1.06	1	1 1/4
2 x 1 1/4	—	25	.98	7/8	1 1/4
2 x 1	—	30	.75	3/4	1 1/4
2 x 3/4	—	30	.88	5/8	1 1/4
2 x 1/2	—	30	.70	1/2	1 1/4
2 1/2	—	25	1.87	1 13/32	1 13/32
2 1/2 x 2	—	25	1.73	1 1/4	1 1/2
2 1/2 x 1 1/2	—	25	1.51	1	1 1/2
2 1/2 x 1 1/4	—	20	1.22	7/8	1 1/2
2 1/2 x 1	—	20	1.27	3/4	1 1/2
3	—	15	3.06	1 5/8	1 5/8
3 x 2 1/2	—	20	2.50	1 1/2	1 3/4
3 x 2	—	20	2.50	1 1/4	1 3/4
3 x 1 1/2	—	25	1.95	1	1 3/4
3 x 1 1/4	—	25	1.64	7/8	1 3/4
3 1/2	—	8	4.65	2	2
4	—	8	5.50	2 1/8	2 1/8
4 x 3	—	8	5.00	1 3/4	2 1/4
4 x 2 1/2	—	8	3.80	1 1/2	2 1/4
4 x 2	—	8	3.83	1 1/4	2 1/4
5	—	3	11.18	3 1/8	3 1/8
6	—	2	20.50	3 5/8	3 5/8
6 x 4	—	—	15.50	2 5/8	3 5/8
8	—	—	45.00	4 3/4	4 3/4

90° COPPER DRAIN ELLS

10-236

C x C WITH DRAIN CAP

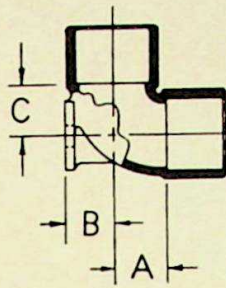
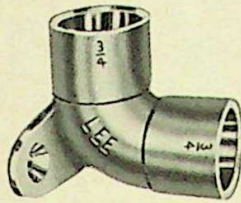


Nom. Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	—	—	.10	3/8	3/8	27/32
3/4	—	—	.19	1/2	1/2	31/32

90° DROP ELLS

10-240

C x C

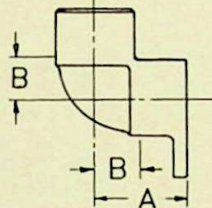


Nom. Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3/8	50	450	.08	5/16	11/32	5/16
1/2	50	300	.11	3/8	13/32	3/8
3/4	25	150	.22	1/2	17/32	1/2

90° HI-EAR ELLS

14-240

C x C

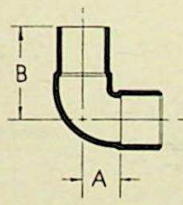
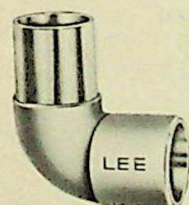


Nom. Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	—	—	—	7/8	3/8

90° FITTING ELLS

10-254

FTG. x C

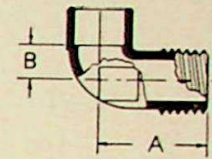


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8	75	675	.06	5/16	7/8
1/2	100	1000	.08	3/8	1 1/8
3/4	40	400	.17	1/2	1 1/2
1	20	120	.33	3/4	1 7/8
1 1/4	—	60	.50	7/8	2 1/8
1 1/2	—	100	.67	1	2 3/8
2	—	40	1.18	1 1/4	2 5/8
2 1/2	—	25	1.95	1 1/2	3 1/8
3	—	15	2.80	1 3/4	3 5/8
4	—	8	5.00	2 1/4	4 1/2

90° ELLS

10-255

C x M

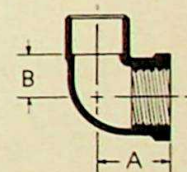


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8	75	675	.07	31/32	15/32
3/8 x 1/2	50	450	.12	13/16	3/8
1/2	30	270	.14	1 1/4	3/8
1/2 x 1	25	150	.33	1 1/2	3/4
1/2 x 3/4	25	225	.20	1 5/16	9/16
1/2 x 3/8	50	450	.10	1 1/16	1/4
1/2 x 1/4	25	450	.09	1 1/16	5/16
3/4	30	180	.22	1 7/16	1/2
3/4 x 1	10	90	.30	1 1/2	3/4
3/4 x 1/2	20	240	.20	1 3/8	3/8
1	20	120	.39	1 5/8	2 5/8
1 x 3/4	20	120	.34	1 1/2	9/16
1 x 1/2	25	150	.28	1 1/2	7/16
1 1/4	—	50	.55	1 5/16	1 5/16
1 1/4 x 1 1/2	12	36	.73	2	1
1 1/2	—	40	.77	2 1/16	1 3/8
2	—	20	1.34	2 3/16	1 3/8
2 1/2	—	10	2.25	2 13/16	1 5/8
3	—	12	3.18	3 1/2	1 15/16

90° ELLS

10-257

C x F



Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8	50	450	.08	2 1/32	1 3/32
3/8 x 1/2	50	300	.15	1 3/16	9/16
1/2	75	450	.14	1 3/16	1/2
1/2 x 1	25	150	.55	1 5/16	3/4
1/2 x 3/4	50	300	.20	7/8	5/8
1/2 x 3/8	100	600	.11	3/4	7/16
1/2 x 1/4	50	450	.10	1 1/16	1 3/32
3/4	35	350	.23	1 5/16	1 1/16
3/4 x 1	20	120	.42	1 1/8	7/8
3/4 x 1/2	20	180	.17	7/8	1/2
3/4 x 3/8	20	180	.18	7/8	1/2
1	25	75	.40	1 3/16	1 3/16
1 x 1 1/4	10	60	.65	1 3/8	1 1/8

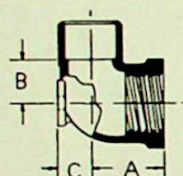
10-257 (CONTINUED)

Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 x 3/4	20	200	.28	1 1/8	5/8
1 x 1/2	25	150	.30	1 1/8	9/16
1 1/4	—	60	.60	1 7/16	1 5/16
1 1/4 x 1 1/2	—	30	.93	1 1/2	1 1/8
1 1/4 x 1	12	72	.59	1 7/16	7/8
1 1/2	—	40	.84	1 9/16	1 1/16
1 1/2 x 1 1/4	10	30	.85	1 9/16	1
1 1/2 x 1	—	60	.55	1 7/16	1 3/16
2	—	15	1.70	1 29/32	1 15/32
2 x 1 1/2	—	20	1.26	1 7/8	1 1/8
2 1/2	—	20	2.90	2 15/32	1 23/32
3	—	12	3.40	2 25/32	2
4	—	5	8.00	3 9/16	2 25/32

90° DROP ELLS

10-259

C x F

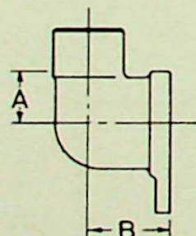


Nom. Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3/8	40	480	.11	2 1/32	1 3/32	1 1/32
3/8 x 1/2	20	180	.24	3/4	1/2	1 1/32
1/2	50	300	.17	1 3/16	1/2	1 3/32
1/2 x 3/4	25	150	.34	1 5/16	9/16	1 3/32
1/2 x 3/8	25	300	.15	3/4	1/2	1 3/32
3/4	20	120	.33	1 5/16	1 1/16	1 7/32
1	12	36	.69	1 3/16	1 3/16	2 1/32

90° HI-EAR ELLS

14-259

C x F

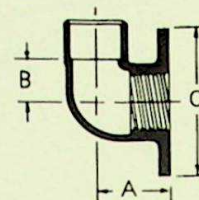
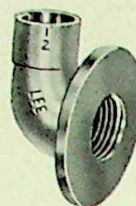


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	—	—	.21	9/16	7/8

90° FLANGED SINK ELLS

10-260

C x F

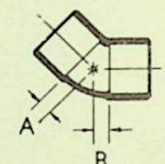
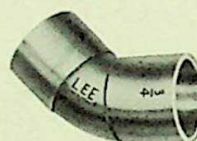


Nom. Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3/8 x 1/2	20	180	.23	1 3/16	1 9/32	1 15/16
1/2	25	150	.27	2 7/32	2 1/32	1 15/16

45° ELLS

10-290

C x C

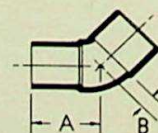
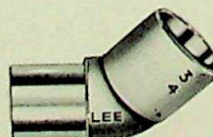


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8	100	900	.04	3/16	3/16
1/2	100	1000	.07	3/16	3/16
3/4	50	500	.14	1/4	1/4
1	25	150	.26	5/16	5/16
1 1/4	15	90	.35	3/8	3/8
1 1/2	10	30	.53	7/16	7/16
2	—	25	.94	1 7/32	1 7/32
2 1/2	—	15	1.44	5/8	5/8
3	—	20	2.20	3/4	3/4
3 1/2	—	6	2.95	7/8	7/8
4	—	8	5.17	1 5/16	1 5/16
5	—	4	8.67	1 7/16	1 7/16
6	—	2	14.47	1 5/8	1 5/8
8	—	—	31.00	2 1/8	2 1/8

45° FITTING ELLS

10-295

FTG. x C



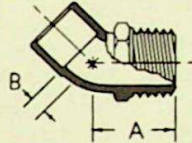
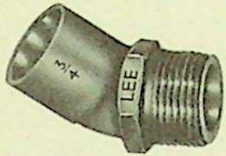
10-295 (CONTINUED)

Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{8}$	50	900	.05	$\frac{27}{32}$	$\frac{7}{32}$
$\frac{1}{2}$	100	600	.07	$\frac{15}{16}$	$\frac{7}{32}$
$\frac{3}{4}$	40	400	.15	$\frac{13}{16}$	$\frac{9}{32}$
1	20	120	.25	$\frac{115}{32}$	$\frac{3}{8}$
$1\frac{1}{4}$	20	60	.40	$\frac{121}{32}$	$\frac{1}{2}$
$1\frac{1}{2}$	10	30	.54	$\frac{127}{32}$	$\frac{9}{16}$
2	—	20	1.10	$\frac{25}{32}$	$\frac{5}{8}$
$2\frac{1}{2}$	—	15	1.55	$\frac{211}{32}$	$\frac{11}{16}$
3	—	8	2.34	$\frac{223}{32}$	$\frac{13}{16}$

45° ELLS

10-296

C x M

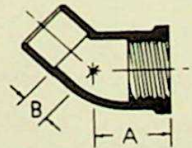
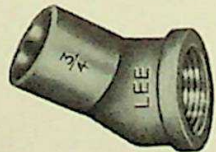


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{8}$	50	450	.07	$\frac{13}{16}$	$\frac{7}{32}$
$\frac{1}{2}$	40	360	.12	1	$\frac{7}{32}$
$\frac{3}{4}$	15	135	.22	$\frac{13}{16}$	$\frac{9}{32}$
1	20	120	.39	$\frac{15}{16}$	$\frac{11}{32}$
$1\frac{1}{4}$	20	60	.60	$\frac{115}{32}$	$\frac{1}{2}$
$1\frac{1}{2}$	10	30	.81	$\frac{119}{32}$	$\frac{9}{16}$
2	15	30	1.31	$\frac{127}{32}$	$\frac{5}{8}$
3	—	8	3.10	$\frac{211}{32}$	$\frac{7}{8}$

45° ELLS

10-297

C x F

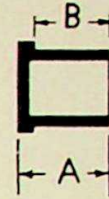
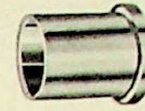


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{8}$	50	450	.10	$\frac{1}{2}$	$\frac{15}{32}$
$\frac{1}{2}$	40	360	.15	$\frac{9}{16}$	$\frac{9}{16}$
$\frac{3}{4}$	15	135	.25	$\frac{21}{32}$	$\frac{19}{32}$
1	15	90	.42	$\frac{25}{32}$	$\frac{11}{16}$
$1\frac{1}{4}$	10	60	.66	$\frac{115}{32}$	$\frac{1}{2}$
$1\frac{1}{2}$	—	30	.88	$\frac{119}{32}$	$\frac{9}{16}$
2	—	15	1.55	$\frac{125}{32}$	$\frac{11}{16}$

FITTING PLUGS

10-396

FTG.

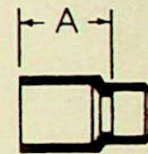


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{8}$	100	1800	.02	$\frac{5}{8}$	$\frac{1}{2}$
$\frac{1}{2}$	50	900	.04	$\frac{13}{16}$	$\frac{11}{16}$
$\frac{3}{4}$	50	450	.08	$\frac{11}{16}$	$\frac{29}{32}$
1	25	225	.13	$\frac{11}{4}$	$\frac{13}{32}$
$1\frac{1}{4}$	30	180	.20	$\frac{13}{8}$	$\frac{13}{16}$
$1\frac{1}{2}$	20	120	.37	$1\frac{1}{2}$	$1\frac{1}{4}$
2	12	72	.60	$1\frac{11}{16}$	$1\frac{1}{16}$
3	18	36	1.30	$2\frac{3}{16}$	$1\frac{15}{16}$
4	—	—	2.75	$2\frac{7}{8}$	$2\frac{9}{16}$

FITTING REDUCERS

10-410

FTG. x C

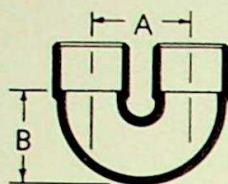
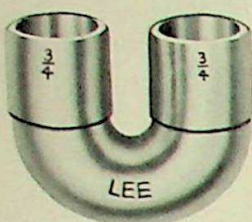


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
$\frac{1}{2}$ x $\frac{3}{8}$	100	900	.04	$\frac{23}{32}$
$\frac{3}{4}$ x $\frac{1}{2}$	40	360	.10	$\frac{11}{16}$
$\frac{3}{4}$ x $\frac{3}{8}$	40	360	.07	$\frac{31}{32}$
1 x $\frac{3}{4}$	15	135	.16	$\frac{11}{4}$
1 x $\frac{1}{2}$	20	180	.13	$\frac{11}{4}$
$1\frac{1}{4}$ x 1	25	150	.25	$\frac{13}{8}$
$1\frac{1}{4}$ x $\frac{3}{4}$	30	180	.22	$\frac{15}{16}$
$1\frac{1}{4}$ x $\frac{1}{2}$	30	180	.20	$\frac{15}{16}$
$1\frac{1}{2}$ x $1\frac{1}{4}$	15	90	.32	$1\frac{1}{2}$
$1\frac{1}{2}$ x 1	15	90	.30	$1\frac{1}{2}$
$1\frac{1}{2}$ x $\frac{3}{4}$	20	120	.27	$\frac{17}{16}$
$1\frac{1}{2}$ x $\frac{1}{2}$	20	120	.24	$\frac{17}{16}$
2 x $1\frac{1}{2}$	10	30	.52	$\frac{13}{4}$
2 x $1\frac{1}{4}$	10	30	.48	$\frac{13}{4}$
2 x 1	10	30	.45	$\frac{13}{4}$
2 x $\frac{3}{4}$	15	45	.45	$\frac{13}{4}$
2 x $\frac{1}{2}$	15	45	.47	$\frac{13}{4}$
$2\frac{1}{2}$ x 2	—	20	1.25	$\frac{129}{32}$
$2\frac{1}{2}$ x $1\frac{1}{2}$	20	40	.75	$\frac{129}{32}$
3 x $2\frac{1}{2}$	10	20	1.25	$2\frac{1}{8}$
3 x 2	15	30	1.20	$2\frac{3}{32}$
3 x $1\frac{1}{2}$	15	30	1.06	$2\frac{1}{16}$

RETURN BENDS

10-418

C x C

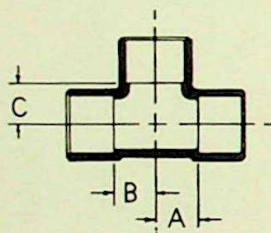
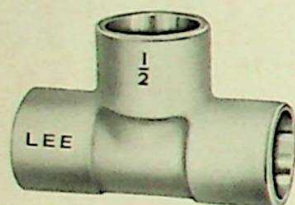


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	25	225	.19	1	1 1/32
3/4	20	120	.32	1 5/16	1 11/32
1	10	60	.56	1 7/8	1 13/16
1 1/4	25	50	.90	2	2
1 1/2	—	20	1.26	2 1/2	2 3/8
2	—	25	2.35	3	2 15/16

TEES

10-460

C x C x C



Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3/8	50	450	.07	5/16	5/16	5/16
3/8 x 3/8 x 1/2	40	360	.10	15/32	15/32	13/32
1/2	50	500	.11	3/8	3/8	3/8
1/2 x 1/2 x 1	10	90	.26	25/32	25/32	17/32
1/2 x 1/2 x 3/4	50	150	.18	1/2	1/2	3/8
1/2 x 1/2 x 3/8	50	300	.10	5/16	5/16	3/8
1/2 x 3/8 x 1/2	50	300	.10	3/8	3/8	3/8
1/2 x 3/8 x 3/8	40	360	.09	5/16	5/16	3/8
3/4	25	250	.25	1/2	1/2	1/2
3/4 x 3/4 x 1	15	90	.29	11/16	11/16	9/16
3/4 x 3/4 x 1/2	30	300	.19	3/8	3/8	1/2
3/4 x 3/4 x 3/8	25	250	.21	13/32	13/32	19/32
3/4 x 1/2 x 3/4	25	250	.20	1/2	1/2	1/2
3/4 x 1/2 x 1/2	40	400	.17	3/8	3/8	1/2
3/4 x 1/2 x 3/8	20	180	.17	13/32	13/32	19/32
1	15	150	.42	11/16	11/16	11/16
1 x 1 x 1 1/2	—	30	.70	1 1/32	1 1/32	25/32
1 x 1 x 1 1/4	—	40	.52	13/16	13/16	11/16
1 x 1 x 3/4	15	150	.37	9/16	9/16	11/16
1 x 1 x 1/2	20	120	.33	7/16	7/16	11/16
1 x 1 x 3/8	10	90	.32	15/32	15/32	25/32
1 x 3/4 x 1	10	60	.43	23/32	25/32	25/32
1 x 3/4 x 3/4	25	75	.34	9/16	9/16	11/16
1 x 3/4 x 1/2	25	75	.27	15/32	17/32	25/32

10-460 (CONTINUED)

Nominal Size	Pkg. Quan.	Master Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 x 1/2 x 1 1/4	15	45	.53	29/32	29/32	25/32
1 x 1/2 x 1	15	90	.40	25/32	25/32	25/32
1 x 1/2 x 3/4	10	90	.32	19/32	21/32	25/32
1 x 1/2 x 1/2	10	90	.24	15/32	17/32	25/32
1 x 3/8 x 1/2	10	90	.24	5/8	9/16	13/16
1 x 1/4 x 1/2	—	—	.36	17/32	17/32	25/32
1 1/4	—	100	.60	13/16	13/16	13/16
1 1/4 x 1 1/4 x 2	—	20	1.06	1 1/4	1 1/4	7/8
1 1/4 x 1 1/4 x 1 1/2	25	50	.82	1 1/32	1 1/32	29/32
1 1/4 x 1 1/4 x 1	25	75	.60	25/32	25/32	29/32
1 1/4 x 1 1/4 x 3/4	40	80	.47	9/16	9/16	13/16
1 1/4 x 1 1/4 x 1/2	20	60	.42	7/16	7/16	13/16
1 1/4 x 1 x 1 1/2	8	24	.76	1 1/32	1 1/32	29/32
1 1/4 x 1 x 1 1/4	10	30	.63	29/32	29/32	29/32
1 1/4 x 1 x 1	50	100	.45	11/16	11/16	13/16
1 1/4 x 1 x 3/4	50	100	.47	9/16	9/16	13/16
1 1/4 x 1 x 1/2	—	—	.42	5/8	5/8	7/8
1 1/4 x 3/4 x 1 1/4	40	80	.60	29/32	29/32	29/32
1 1/4 x 3/4 x 1	50	100	.50	25/32	25/32	29/32
1 1/4 x 3/4 x 3/4	12	72	.40	9/16	9/16	11/16
1 1/4 x 3/4 x 1/2	15	90	.34	1/2	1/2	7/8
1 1/4 x 1/2 x 1 1/4	40	—	.50	13/16	13/16	13/16
1 1/4 x 1/2 x 1	12	72	.47	25/32	25/32	29/32
1 1/2	—	60	.84	15/16	15/16	15/16
1 1/2 x 1 1/2 x 2 1/2	—	10	1.83	1 17/32	1 17/32	1 1/16
1 1/2 x 1 1/2 x 2	—	20	1.06	1 9/32	1 9/32	1 1/16
1 1/2 x 1 1/2 x 1 1/4	—	30	.75	13/16	13/16	15/16
1 1/2 x 1 1/2 x 1	—	40	.69	11/16	11/16	15/16
1 1/2 x 1 1/2 x 3/4	—	30	.65	9/16	9/16	15/16
1 1/2 x 1 1/2 x 1/2	—	30	.54	7/16	7/16	15/16
1 1/2 x 1 1/4 x 1 1/2	—	20	.89	1 1/32	1 1/32	1 1/32
1 1/2 x 1 1/4 x 1 1/4	—	30	.72	29/32	29/32	1 1/32
1 1/2 x 1 1/4 x 1	—	30	.69	25/32	25/32	1 1/32
1 1/2 x 1 1/4 x 3/4	—	50	.55	9/16	9/16	15/16
1 1/2 x 1 1/4 x 1/2	—	50	.56	9/16	9/16	1 1/32
1 1/2 x 1 x 1 1/2	—	25	.84	1 1/32	1 1/32	1 1/32
1 1/2 x 1 x 1 1/4	—	30	.80	29/32	29/32	1 1/32
1 1/2 x 1 x 1	—	30	.63	25/32	25/32	1 1/32
1 1/2 x 1 x 3/4	12	36	.53	5/8	5/8	1
1 1/2 x 1 x 1/2	15	45	.49	15/32	15/32	1 1/32
1 1/2 x 3/4 x 1 1/2	—	25	.83	1 1/32	1 1/32	1 1/32
1 1/2 x 3/4 x 1	—	25	.58	25/32	25/32	1 1/32
1 1/2 x 3/4 x 3/4	—	30	.63	19/32	21/32	1 1/32
1 1/2 x 1/2 x 1 1/2	—	30	.77	13/32	1 1/32	1 1/32
1 1/2 x 1/2 x 1 1/4	—	40	.65	7/8	7/8	1
1 1/2 x 1/2 x 1	—	40	.50	3/4	3/4	1
2	—	25	1.64	13/16	13/16	13/16
2 x 2 x 4	—	4	3.79	2 11/32	2 11/32	1 3/8
2 x 2 x 3	—	8	2.60	1 13/16	1 13/16	1 5/16
2 x 2 x 2 1/2	—	12	2.05	1 9/16	1 9/16	1 5/16
2 x 2 x 1 1/2	—	30	1.50	1 1/16	1 1/16	1 9/32
2 x 2 x 1 1/4	—	35	1.20	13/16	13/16	13/16
2 x 2 x 1	—	20	1.04	1 1/16	1 1/16	13/16
2 x 2 x 3/4	—	20	1.00	9/16	9/16	1 15/16
2 x 2 x 1/2	—	20	.95	7/16	7/16	13/16
2 x 1 1/2 x 2	—	30	1.53	1 9/32	1 5/16	1 5/16

10-460 (CONTINUED)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
2 x 1 1/2 x 1 1/2	—	40	1.23	1 1/32	1 1/16	1 9/32
2 x 1 1/2 x 1 1/4	—	25	1.02	1 3/16	1 3/16	1 3/16
2 x 1 1/2 x 1	—	25	1.00	1 3/16	1 3/16	1 5/16
2 x 1 1/2 x 3/4	8	24	.90	2 1/32	1 1/16	1 9/32
2 x 1 1/2 x 1/2	8	24	.84	9/16	5/8	1 9/32
2 x 1 1/4 x 2	—	35	1.45	1 9/32	1 5/16	1 5/16
2 x 1 1/4 x 1 1/2	15	30	1.11	1 1/32	1 1/16	1 9/32
2 x 1 1/4 x 1 1/4	—	25	1.04	2 9/32	1 5/16	1 9/32
2 x 1 1/4 x 1	15	30	.97	2 5/32	1 3/16	1 9/32
2 x 1 1/4 x 3/4	20	40	.83	2 1/32	1 1/16	1 9/32
2 x 1 1/4 x 1/2	20	40	.73	9/16	9/16	1 9/32
2 x 1 x 2	—	30	1.37	1 9/32	1 5/16	1 5/16
2 x 1 x 1	20	40	.87	3/4	3/4	1 1/4
2 x 3/4 x 2	—	35	1.34	1 9/32	1 5/16	1 5/16
2 x 1/2 x 2	—	35	1.31	1 3/16	1 3/16	1 3/16
2 x 1/2 x 3/4	—	25	.90	1 9/32	1 1/16	1 9/32
2 1/2	—	8	—	1 1/2	1 1/2	1 1/2
2 1/2 x 2 1/2 x 4	—	—	4.43	2 3/8	2 3/8	1 3/4
2 1/2 x 2 1/2 x 3	—	—	3.15	1 13/16	1 13/16	1 5/8
2 1/2 x 2 1/2 x 2	—	10	2.33	1 5/16	1 5/16	1 9/16
2 1/2 x 2 1/2 x 1 1/2	—	10	1.96	1 1/16	1 1/16	1 17/32
2 1/2 x 2 1/2 x 1 1/4	—	10	1.93	1 5/16	1 5/16	1 17/32
2 1/2 x 2 1/2 x 1	—	15	1.47	2 1/32	2 1/32	1 13/32
2 1/2 x 2 1/2 x 3/4	—	15	1.60	1 1/16	1 1/16	1 17/32
2 1/2 x 2 1/2 x 1/2	—	15	1.53	5/8	5/8	1 9/16
2 1/2 x 2 x 3	—	12	2.90	1 13/16	1 13/16	1 5/8
2 1/2 x 2 x 2 1/2	—	12	2.40	1 9/16	1 9/16	1 9/16
2 1/2 x 2 x 2	—	15	2.03	1 5/16	1 5/16	1 9/16
2 1/2 x 2 x 1 1/2	—	15	1.85	1 1/16	1 1/16	1 17/32
2 1/2 x 2 x 1 1/4	—	20	1.60	1 5/16	1 5/16	1 17/32
2 1/2 x 2 x 1	—	30	1.48	1 3/16	1 3/16	1 17/32
2 1/2 x 2 x 3/4	—	15	1.26	1 1/16	1 1/16	1 17/32
2 1/2 x 2 x 1/2	—	15	1.25	5/8	5/8	1 17/32
2 1/2 x 1 1/2 x 2 1/2	—	10	2.30	1 17/32	1 9/16	1 9/16
2 1/2 x 1 1/2 x 2	—	10	1.75	1 9/32	1 9/16	1 9/16
2 1/2 x 1 1/2 x 1 1/2	—	12	1.50	1 1/32	1 1/16	1 17/32
2 1/2 x 1 1/4 x 2 1/2	—	8	2.20	1 17/32	1 9/16	1 9/16
2 1/2 x 1 1/4 x 2	—	8	1.90	1 1/4	1 1/4	1 1/2
2 1/2 x 1 x 2 1/2	—	10	2.14	1 17/32	1 9/16	1 9/16
2 1/2 x 1 x 2	—	10	1.85	1 1/4	1 1/4	1 1/2
2 1/2 x 3/4 x 2 1/2	—	10	2.00	1 1/2	1 9/16	1 9/16
2 1/2 x 1/2 x 2 1/2	—	10	2.00	1 1/2	1 9/16	1 9/16
3	—	10	3.80	1 21/32	1 21/32	1 21/32
3 x 3 x 5	—	4	7.70	3 1/8	3 1/8	1 3/4
3 x 3 x 4	—	—	5.31	2 3/8	2 3/8	1 7/8
3 x 3 x 2 1/2	—	10	3.24	1 9/16	1 9/16	1 13/16
3 x 3 x 2	—	12	2.80	1 5/32	1 5/32	1 21/32
3 x 3 x 1 1/2	—	15	2.53	2 9/32	2 9/32	1 21/32
3 x 3 x 1 1/4	—	15	2.40	2 9/32	2 5/32	1 21/32
3 x 3 x 1	—	15	2.40	2 1/32	2 1/32	1 21/32
3 x 3 x 3/4	—	20	2.12	1 7/32	1 7/32	1 21/32
3 x 3 x 1/2	—	20	2.00	5/8	5/8	1 23/32
3 x 2 1/2 x 3	—	8	3.50	1 13/16	1 13/16	1 13/16
3 x 2 1/2 x 2 1/2	—	10	3.50	1 9/16	1 9/16	1 13/16
3 x 2 1/2 x 2	—	10	2.50	1 5/16	1 5/16	1 13/16

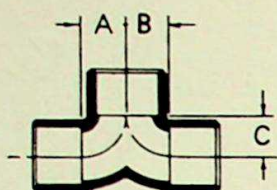
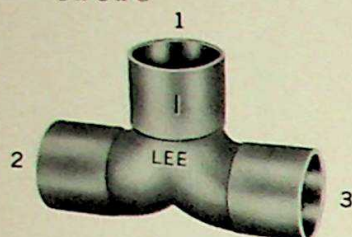
10-460 (CONTINUED)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3 x 2 1/2 x 1 1/2	—	8	2.30	1 1/8	1 1/8	1 25/32
3 x 2 1/2 x 1 1/4	—	8	2.30	1	1	1 25/32
3 x 2 1/2 x 1	—	8	2.00	7/8	7/8	1 25/32
3 x 2 x 3	—	6	3.40	1 13/16	1 13/16	1 13/16
3 x 2 x 2 1/2	—	6	3.00	1 9/16	1 9/16	1 13/16
3 x 2 x 2	—	6	2.50	1 5/16	1 5/16	1 13/16
3 x 2 x 1 1/2	—	8	2.30	1 1/16	1 1/16	1 3/4
3 x 2 x 1 1/4	—	10	2.00	7/8	7/8	1 3/4
3 x 2 x 1	—	10	1.72	3/4	3/4	1 3/4
3 x 1 1/2 x 3	—	6	3.25	1 25/32	1 13/16	1 13/16
3 x 1 1/4 x 3	—	6	3.15	1 25/32	1 13/16	1 13/16
3 x 1 x 3	—	6	3.00	1 3/4	1 13/16	1 13/16
3 1/2	—	6	5.40	2	2	2
3 1/2 x 3 1/2 x 2 1/2	—	8	4.60	1 9/16	1 9/16	2 1/8
3 1/2 x 3 1/2 x 1 1/2	—	8	3.22	1 1/32	1 1/32	2 1/8
3 1/2 x 2 1/2 x 3	—	8	4.75	1 13/16	1 13/16	2 1/8
3 1/2 x 2 1/2 x 2 1/2	—	8	4.12	1 9/16	1 9/16	2 1/8
4	—	4	7.75	2 1/4	2 1/4	2 1/4
4 x 4 x 6	—	—	13.00	3 5/8	3 5/8	2 11/16
4 x 4 x 3	—	5	5.75	1 3/4	1 3/4	2 1/4
4 x 4 x 2 1/2	—	5	6.23	1 9/16	1 9/16	2 1/4
4 x 4 x 2	—	8	5.95	1 5/16	1 5/16	2 1/4
4 x 4 x 1 1/2	—	—	5.12	1 1/32	1 1/32	2 3/8
4 x 4 x 1 1/4	—	—	4.96	1 5/16	1 5/16	2 1/4
4 x 4 x 1	—	10	4.10	1 3/16	1 3/16	2 1/4
4 x 4 x 3/4	—	10	3.81	1 1/16	1 1/16	2 3/16
4 x 4 x 1/2	—	—	3.65	1/2	1/2	2 1/4
4 x 3 1/2 x 2 1/2	—	—	5.10	1 9/16	1 9/16	2 3/8
4 x 3 x 4	—	—	6.75	2 1/4	2 1/4	2 1/4
4 x 3 x 3	—	—	4.70	1 3/4	1 3/4	2 1/4
4 x 3 x 2 1/2	—	7	4.45	1 1/2	1 9/16	2 1/4
4 x 3 x 2	—	—	3.90	1 1/4	1 5/16	2 1/4
4 x 2 1/2 x 4	—	—	8.00	2 1/4	2 1/4	2 1/4
4 x 2 x 4	—	—	6.50	2 3/8	2 3/8	2 3/8
4 x 2 x 3	—	8	4.66	1 3/4	1 3/4	2 1/4
4 x 2 x 2	—	—	3.25	1 5/16	1 5/16	2 1/4
4 x 1 1/2 x 4	—	—	5.80	2 1/32	2 1/4	2 1/4
4 x 1 1/4 x 4	—	—	6.00	2 1/32	2 1/4	2 1/4
4 x 1 x 4	—	—	5.90	2 1/32	2 1/4	2 1/4
5	—	5	15.50	3 1/8	3 1/8	3 1/8
5 x 5 x 4	—	3	12.50	2 1/2	2 1/2	3
5 x 5 x 3	—	—	10.40	1 7/8	1 7/8	3
5 x 5 x 2 1/2	—	—	10.86	1 23/32	1 23/32	3 1/8
5 x 5 x 1 1/2	—	—	10.28	1 7/16	1 7/16	3 1/8
5 x 4 x 4	—	—	9.25	2 1/2	2 1/2	3
5 x 4 x 3	—	—	8.00	1 3/4	1 3/4	3
5 x 3 x 4	—	—	8.00	2 1/2	2 1/2	3
6	—	2	28.00	3 5/8	3 5/8	3 5/8
6 x 6 x 5	—	3	23.50	3	3	3 1/2
6 x 6 x 4	—	4	19.83	2 5/8	2 5/8	3 5/8
6 x 6 x 3	—	—	16.00	1 7/8	1 7/8	3 17/32
6 x 6 x 2	—	3	15.75	1 21/32	1 21/32	3 5/8
6 x 4 x 6	—	—	20.10	3 1/2	3 1/2	3 1/2
6 x 4 x 4	—	—	16.20	2 1/2	2 1/2	3 1/2
6 x 4 x 3	—	—	11.75	1 7/8	1 7/8	3 1/2

DOUBLE ELLS

10-466

C x C x C

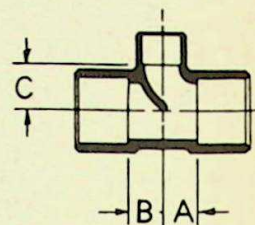
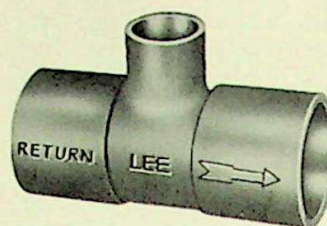


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1	10	60	.56	3/4	3/4	3/4
1 x 3/4 x 3/4	15	90	.36	3/4	3/4	5/8
1 1/4	8	24	.86	7/8	7/8	7/8
1 1/4 x 1 x 1	10	30	.75	7/8	7/8	3/4

SUPPLY & RETURN TEES

10-475

C x C x C

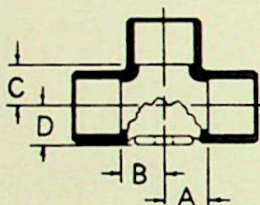


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 x 1 x 1/2	25	75	.40	1/2	1/2	3/4

DROP TEES

10-467

C x C x C

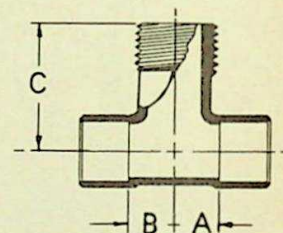
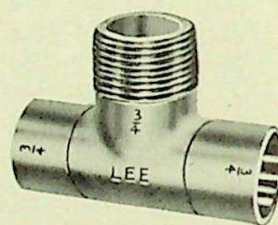


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
3/8	25	225	.14	5/16	5/16	5/16	—
1/2	25	150	.21	3/8	3/8	3/8	—
3/4	20	120	.40	1/2	1/2	1/2	2 1/32

TEES

10-477

C x C x M

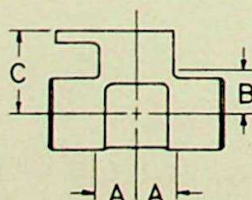
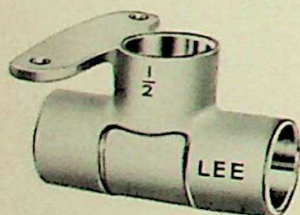


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3/8	25	450	.09	5/16	5/16	1 1/16
1/2	25	225	.17	7/16	7/16	1 5/16
3/4	20	120	.32	9/16	9/16	1 1/2
1	10	60	.50	3/4	3/4	1 13/16
1 1/4	10	30	.75	7/8	7/8	2
1 1/4 x 1 1/4 x 1 1/2	8	24	.88	1	1	2 1/32
1 1/2	20	40	1.05	1	1	2 3/16
2	10	20	1.90	1 1/4	1 1/4	2 5/8
2 1/2	—	15	2.87	1 5/8	1 5/8	2 13/16
3	—	—	5.00	1 15/16	1 15/16	3 1/2
3 x 3 x 2 1/2	—	5	3.88	1 5/8	1 5/8	3 7/16
3 x 2 1/2 x 2 1/2	—	—	3.50	1 5/8	1 5/8	3 7/16
4 x 3 x 3	—	—	5.94	1 15/16	1 15/16	4 3/16

HI-EAR TEES

14-467

C x C x C

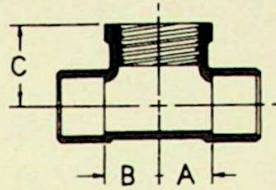
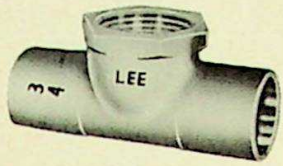


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	—	—	—	3/8	3/8	7/8

TEES

10-480

C x C x F

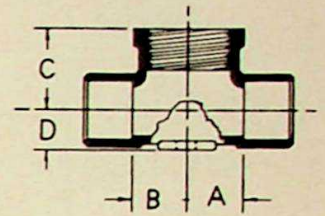
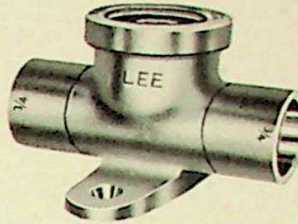


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3/8	40	480	.13	15/32	15/32	11/16
3/8 x 3/8 x 1/2	25	225	.18	17/32	17/32	3/4
1/2	50	500	.17	1/2	1/2	13/16
1/2 x 1/2 x 3/4	30	180	.21	5/8	5/8	7/8
1/2 x 1/2 x 3/8	50	500	.13	7/16	7/16	3/4
1/2 x 1/2 x 1/4	40	360	.11	3/8	3/8	23/32
1/2 x 3/8 x 1/2	25	225	.18	17/32	5/8	3/4
1/2 x 3/8 x 3/8	25	225	.16	15/32	17/32	25/32
3/4	25	150	.30	5/8	5/8	15/16
3/4 x 3/4 x 1	15	90	.50	7/8	7/8	13/32
3/4 x 3/4 x 1/2	25	250	.24	1/2	1/2	7/8
3/4 x 3/4 x 3/8	25	250	.22	7/16	7/16	13/16
3/4 x 1/2 x 3/4	25	150	.34	23/32	23/32	11/32
3/4 x 1/2 x 1/2	25	150	.24	5/8	5/8	31/32
1	10	60	.52	13/16	13/16	13/16
1 x 1 x 3/4	15	90	.38	5/8	5/8	1 1/8
1 x 1 x 1/2	15	150	.34	1/2	1/2	1 1/16
1 x 1 x 3/8	15	90	.36	19/32	19/32	1 1/32
1 x 3/4 x 1	10	60	.57	7/8	15/16	1 1/4
1 x 3/4 x 3/4	15	90	.40	3/4	25/32	13/16
1 x 3/4 x 1/2	15	90	.36	5/8	11/16	13/32
1 1/4	8	24	.86	15/16	15/16	1 7/16
1 1/4 x 1 1/4 x 1	—	50	.61	13/16	13/16	1 3/8
1 1/4 x 1 1/4 x 3/4	12	36	.63	13/16	13/16	1 5/16
1 1/4 x 1 1/4 x 1/2	—	50	.42	1/2	1/2	1 3/16
1 1/4 x 1 1/4 x 3/8	15	45	.52	5/8	5/8	1 5/32
1 1/2	—	50	.90	1 1/16	1 1/16	1 9/16
1 1/2 x 1 1/2 x 1 1/4	20	40	1.16	1 1/8	1 1/8	1 19/32
1 1/2 x 1 1/2 x 1	20	40	.91	15/16	15/16	1 1/2
1 1/2 x 1 1/2 x 3/4	25	50	.81	13/16	13/16	1 13/32
1 1/2 x 1 1/2 x 1/2	25	50	.74	23/32	23/32	1 11/32
2	—	25	1.70	1 5/16	1 5/16	1 7/8
2 x 2 x 1 1/2	10	20	1.69	1 9/32	1 9/32	1 7/8
2 x 2 x 1 1/4	12	24	1.50	1 5/32	1 5/32	1 27/32
2 x 2 x 1	12	24	1.30	31/32	31/32	1 3/4
2 x 2 x 3/4	—	15	1.22	27/32	27/32	1 21/32
2 x 2 x 1/2	—	15	1.22	3/4	3/4	1 19/32
3	—	5	5.20	2 1/8	2 1/8	2 25/32

DROP TEES

10-482

C x C x F

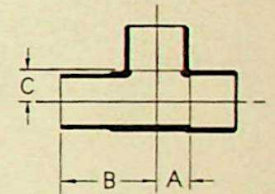
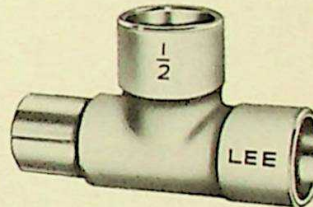


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
3/8	25	225	.18	13/32	13/32	21/32	11/32
3/8 x 3/8 x 1/2	20	180	.20	17/32	17/32	3/4	11/32
1/2	25	225	.20	1/2	1/2	13/16	13/32
1/2 x 1/2 x 3/8	20	240	.15	7/16	7/16	3/4	13/32
3/4	15	90	.46	5/8	5/8	15/16	17/32
1	10	30	.81	13/16	13/16	1 1/16	21/32

FITTING TEES

10-486

FTG. x C x C

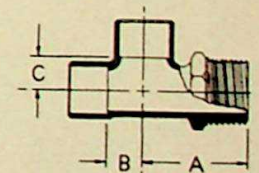
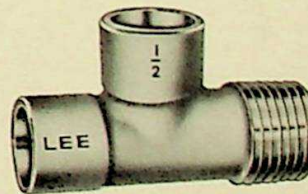


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	—	—	.13	15/32	13/16	15/32
3/4	—	—	.23	9/16	1 1/2	9/16

TEES

10-487

C x M x C

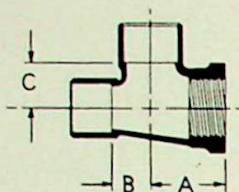
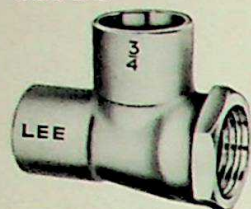


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	25	225	.16	13/16	15/32	1/2

TEES

10-492

C x F x C

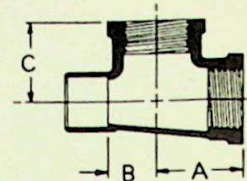
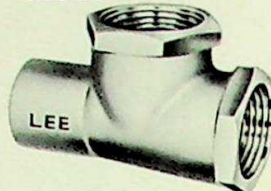


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3/8	20	360	.12	1 1/16	5/16	7/16
1/2	25	225	.16	1 3/16	7/16	9/16
1/2 x 3/4 x 1/2	20	180	.27	1 5/16	7/16	1 1/16
1/2 x 1/2 x 3/4	20	180	.20	7/8	1/2	1/2
1/2 x 3/8 x 1/2	15	135	.14	3/4	3/8	7/16
3/4	20	120	.28	1 5/16	1/2	5/8
3/4 x 3/4 x 1/2	25	150	.29	1 5/16	7/16	1 1/16
3/4 x 1/2 x 3/4	25	150	.24	7/8	1/2	1/2
3/4 x 1/2 x 1/2	15	135	.24	7/8	7/16	9/16
1	10	60	.60	1 3/4	3/4	7/8
1 x 3/4 x 1	10	60	.49	1 3/16	3/4	3/4
1 x 1/2 x 1	15	90	.42	1 1/8	3/4	3/4
1 1/4	—	35	.90	1 1/2	7/8	1
1 1/4 x 3/4 x 1 1/4	12	36	.60	1 1/4	7/8	7/8
1 1/4 x 3/4 x 1	12	36	.60	1 3/16	3/4	7/8
1 1/4 x 1/2 x 1 1/4	12	36	.58	1 3/16	7/8	7/8
1 1/2	20	40	1.18	1 5/8	1	1 1/8
1 1/2 x 3/4 x 1 1/2	25	50	.82	1 3/8	1	1
1 1/2 x 3/4 x 1	25	50	.70	1 3/16	3/4	1
1 1/2 x 1/2 x 1 1/2	25	50	.79	1 3/8	1	1
2	8	16	2.00	1 5/16	1 1/4	1 3/8
2 x 1/2 x 2	—	35	1.23	1 9/16	1 3/16	1 3/16

TEES

10-495

C x F x F

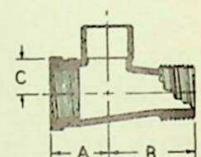
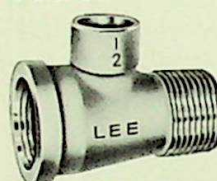


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3/8	25	225	.17	27/32	7/16	27/32
1/2	30	180	.24	1 1/32	9/16	1 1/32
1/2 x 3/4 x 1/2	25	150	.31	1 3/32	9/16	1 3/32
3/4	20	120	.35	1 1/8	5/8	1 1/8
3/4 x 3/4 x 1/2	20	120	.37	1 3/32	9/16	1 3/32
3/4 x 3/4 x 1/8	—	—	.26	27/32	1 1/32	27/32

TEES

10-497

F x M x C

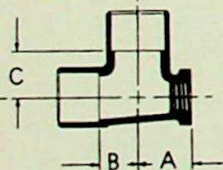
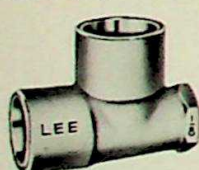


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3/4 x 3/4 x 1/2	25	150	.30	29/32	1 1/4	1 1/16

BASEBOARD TEES

10-492

C x F x C

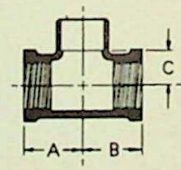
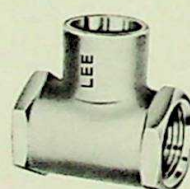


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2 x 1/8 x 1	25	150	.25	27/32	3/4	1/2
1/2 x 1/8 x 3/4	20	180	.17	23/32	9/16	7/16
1/2 x 1/8 x 1/2	20	360	.11	5/8	3/8	3/8
3/4 x 1/8 x 1	20	120	.30	27/32	3/4	5/8
3/4 x 1/8 x 3/4	35	210	.19	2 1/32	17/32	17/32
1 x 1/8 x 1	15	90	.40	7/8	3/4	3/4
1 1/4 x 1/8 x 1 1/4	15	45	.44	2 5/32	13/16	13/16

TEES

10-498

F x F x C



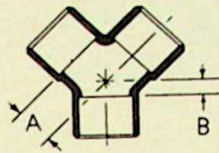
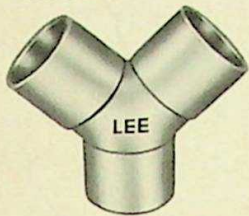
Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	25	150	.24	—	—	—
3/4	20	120	.32	15/16	15/16	5/8
3/4 x 3/4 x 1/2	20	120	.34	15/16	15/16	1 1/16
3/4 x 1/2 x 3/4	20	120	.37	—	—	—
*3/4 x 1/8 x 3/4	—	—	.26	15/16	2 1/32	5/8
3/4 x 1/2 x 1/2	25	150	.24	7/8	13/16	5/8
3/4 x 1/4 x 1/2	25	150	.25	7/8	1 1/16	5/8

*Baseboard Tee

90° Ys

10-830

C x C x C

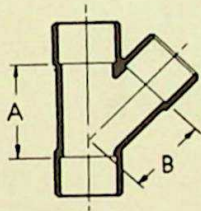
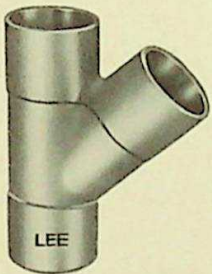


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1	20	60	.42	3/4	5/16
1 x 3/4 x 3/4	20	120	.30	9/16	1/4
1 1/4 x 1 x 1	—	50	.47	3/4	5/16

45° Ys

10-840

C x C x C



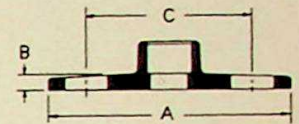
Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	25	225	.16	1 1/8	15/16
3/4	10	90	.35	1 17/32	1 9/32
1	10	60	.59	1 27/32	1 9/16
1 x 3/4 x 3/4	15	90	.34	1 1/4	1 1/8
1 1/4	8	24	.80	2 3/16	1 7/8
1 1/4 x 1 x 1	12	36	.60	1 23/32	1 9/16
1 1/2	—	25	1.05	2 9/16	2 3/16
1 1/2 x 1 1/2 x 1 1/4	—	25	.90	2 5/16	2 1/16
2	—	20	2.05	3 5/16	2 3/4
2 x 2 x 1 1/2	—	12	1.60	2 19/32	2 1/2
3	—	6	4.50	4 15/16	4 1/8
3 x 3 x 2	—	—	4.20	3 3/8	3 17/32
4 x 4 x 3	—	—	8.00	4 15/16	4 13/16

125 LB. COMPANION FLANGES WITH A.S.M.E. DRILLING

(BOLTS NOT INCLUDED)

11-342

C



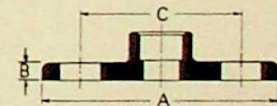
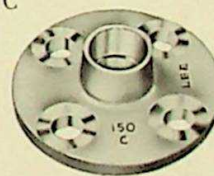
Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	.56	3 1/2	1/4	2 3/8
3/4	.72	3 7/8	1/4	2 3/4
1	1.00	4 1/4	1/4	3 1/8
1 1/4	1.25	4 5/8	1/4	3 1/2
1 1/2	1.90	5	5/16	3 7/8
2	3.13	6	3/8	4 3/4
2 1/2	4.08	7	3/8	5 1/2
3	4.65	7 1/2	7/16	6
3 1/2	6.87	8 1/2	7/16	7
4	8.25	9	7/16	7 1/2
5	11.00	10	7/16	8 1/2
6	16.25	11	7/16	9 1/2
8	31.50	13 1/2	1/2	11 3/4
10	39.00	16	5/8	14 1/4

150 LB. COMPANION FLANGES WITH A.S.M.E. DRILLING

(BOLTS NOT INCLUDED)

11-345

C



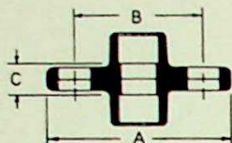
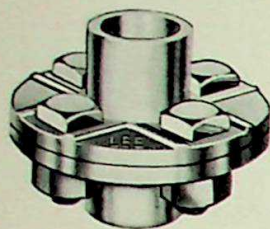
Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	—	3 1/2	5/16	2 3/8
3/4	—	3 7/8	11/32	2 3/4
1	2.20	4 1/4	3/8	3 1/8
1 1/4	2.15	4 5/8	13/32	3 1/2
1 1/2	—	5	7/16	3 7/8
2	4.40	6	1/2	4 3/4
2 1/2	6.62	7	9/16	5 1/2
3	8.29	7 1/2	5/8	6
3 1/2	—	8 1/2	11/16	7
4	14.00	9	11/16	7 1/2
5	—	10	3/4	8 1/2
6	24.35	11	13/16	9 1/2
8	—	13 1/2	15/16	11 3/4
10	—	16	1	14 1/4

FLANGE UNIONS

(2 PARTS, BOLTS NOT INCLUDED)

11-685

C x C

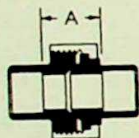
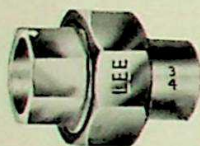


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	1.00	2 7/8	2	1/2
3/4	1.38	3 5/16	2 1/4	1/2
1	1.76	3 1/2	2 9/16	9/16
1 1/4	2.36	4 1/8	3	9/16
1 1/2	2.40	4 3/8	3 1/2	9/16
2	3.95	5	3 7/8	3/4
2 1/2	5.50	5 11/16	4 1/2	3/4
3	8.50	6 7/16	5 3/16	3/4
4	12.80	7 7/16	6 3/16	1 3/16

UNIONS

12-657

C x C

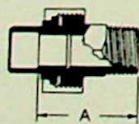


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
3/8	15	270	.17	3/4
1/2	15	135	.34	3/4
3/4	20	80	.55	27/32
1	10	40	.89	1
1 1/4	30	60	1.04	1 1/32
1 1/2	20	40	1.31	1 1/32
2	—	15	1.95	1 1/16

UNIONS

12-661

C x M

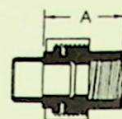
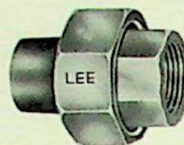


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
3/8	15	170	.23	—
1/2	15	135	.39	1 21/32
3/4	15	90	.61	1 3/4

UNIONS

12-665

C x F

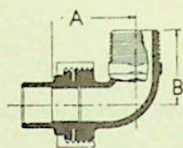
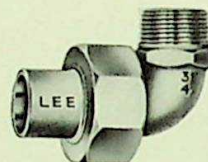


Nominal Size	Package Quantity	Master Carton	Approx. Net Wt.	Dim. "A"
1/2	15	135	.33	1 9/32
3/4	15	90	.55	1 13/32
1	—	—	.97	1 21/32
1 1/4	—	—	—	—
1 1/2	—	—	1.46	—
2	—	—	—	—

90° UNION ELLS

12-670

C x M

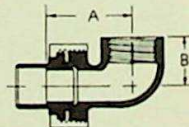
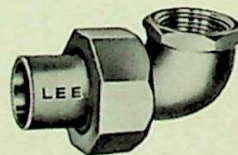


Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	15	135	.37	1 3/8	2
3/4	15	60	.72	1 19/32	2 1/4
1	—	—	1.15	1 27/32	2 9/16

90° UNION ELLS

12-672

C x F



Nominal Size	Pkg. Quan.	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	15	135	.36	1 7/16	2 7/32
3/4	15	60	.65	1 21/32	3 1/32
1	10	30	1.05	1 29/32	1 7/32
1 1/4	—	—	—	2 1/8	1 3/8

LEE's high engineering and manufacturing standards are particularly evident in the cast bronze drainage fittings. These fittings are designed with generous radii throughout and all nominal 90° fittings are pitched at 1/4-inch per foot to provide optimum flow conditions.

LEE machines every solder and threaded surface to exacting tolerances to assure a perfect fit with all mating members. Sharp edges are removed by a small chamfer to facilitate assembly and promote even solder distribution.

The cast bronze drainage fittings are manufactured to conform to American Standards Association specification B-16.23-1960. One hundred per cent inspection of all LEE fittings assures their uniformly high quality.

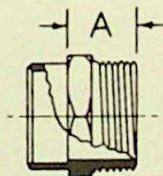
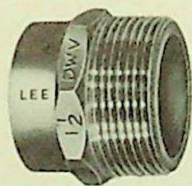
When ordering, please refer to figure numbers.



DWV ADAPTERS

20-101

C x M

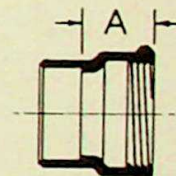


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4	125	.32	7/8
1 1/4 x 2	60	.63	1 1/8
1 1/4 x 1 1/2	100	.41	1 1/16
1 1/2	100	.31	7/8
1 1/2 x 2	50	.77	1 3/16
1 1/2 x 1 1/4	75	.43	1
2	50	.50	1 5/16
2 x 1 1/2	50	.56	1 5/32
2 x 1 1/4	50	.85	1 3/32
2 1/2	25	1.25	1 17/32
3	30	2.03	1 11/16
3 x 2	25	1.37	1 1/4
4	18	3.17	1 13/16

DWV ADAPTERS

20-105

C x F

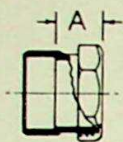
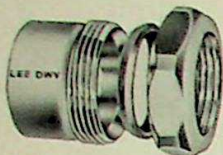


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4	100	.30	27/32
1 1/4 x 2	50	.61	29/32
1 1/4 x 1 1/2	80	.38	7/8
1 1/2	150	.41	13/16
1 1/2 x 2	45	.63	15/16
1 1/2 x 1 1/4	100	.38	31/32
2	40	.75	7/8
2 x 3	35	1.60	1 13/32
2 x 1 1/2	50	.59	1
2 x 1 1/4	50	.40	19/32
2 1/2	25	1.30	1 13/32
3	30	1.83	1 1/2
3 x 4	12	2.70	1 13/32
3 x 2	25	1.09	1 1/16
4	15	3.70	1 13/16

DWV TRAP ADAPTERS

20-109

C x SJ

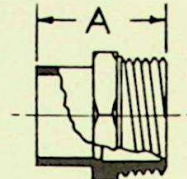


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4 x 1 1/4 O.D.	120	.41	29/32
1 1/2 x 1 1/2 O.D.	100	.53	7/8
1 1/2 x 1 1/4 O.D.	100	.42	31/32
2 x 2 O.D.	60	.73	15/16
2 x 1 1/2 O.D.	70	.56	15/16

DWV FITTING ADAPTERS

20-114

FTG. x M

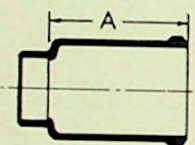


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4	100	.36	1 13/16
1 1/2	75	.48	1 15/16
2	50	.70	2 1/32
3	15	1.65	2 3/4

DWV SOIL PIPE ADAPTERS

20-110

C x SPIGOT

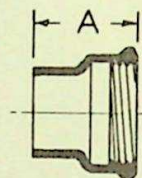
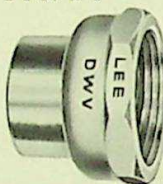


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4 x 2	50	1.13	3 1/4
1 1/2 x 4	30	2.90	3 3/4
1 1/2 x 3	20	2.30	3 9/16
1 1/2 x 2	40	1.10	3 7/16
2	50	.88	2 1/2
2 x 4	10	3.00	3 7/8
2 x 3	20	2.10	3 9/16
3	20	1.18	2 1/2
3 x 4	25	2.86	3 23/32
4	25	2.60	3

DWV FITTING ADAPTERS

20-115

FTG. x F

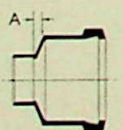


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4	100	.32	1 5/8
1 1/2	80	.42	1 3/4
1 1/2 x 1 1/4	100	.32	1 21/32
2	50	.65	1 7/8
3	15	1.70	2 1/2

DWV SOIL PIPE ADAPTERS

20-111

C x HUB

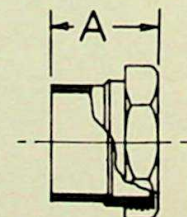
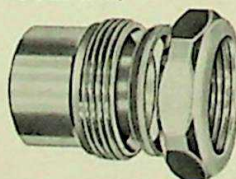


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
3 x 4	10	3.60	7/16
4	10	3.50	3/16

DWV FITTING TRAP ADAPTERS

20-118

FTG. x SJ

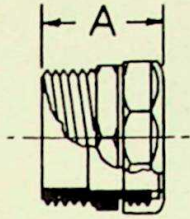
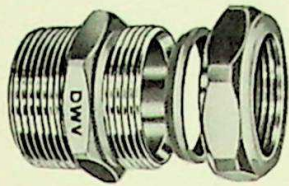


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4 x 1 1/4 O.D.	—	.28	1 21/32
1 1/2 x 1 1/2 O.D.	100	.48	1 5/8

DWV TRAP ADAPTERS

20-119

M x SJ

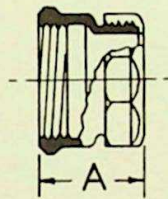
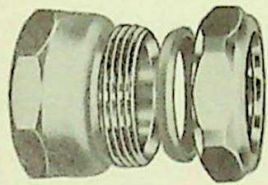


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4 x 1 1/4 O.D.	100	.57	1 27/32
1 1/2 x 1 1/2 O.D.	60	.70	1 13/16
1 1/2 x 1 1/4 O.D.	75	.70	1 29/32

DWV TRAP ADAPTERS

20-120

F x SJ

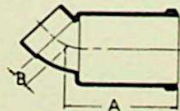
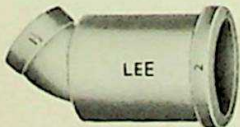


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4 x 1 1/4 O.D.	175	.58	1 5/8
1 1/2 x 1 1/2 O.D.	150	.65	1 21/32
1 1/2 x 1 1/4 O.D.	175	.64	1 3/4

DWV 45° SOIL PIPE ADAPTERS

20-125

C x SPIGOT

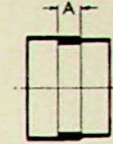
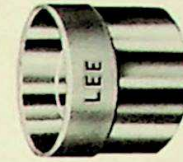


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/2 x 2	40	1.25	3 9/16	1 5/32
2	40	1.25	3 1/16	2 1/32

DWV ADAPTERS

20-132

C x LEAD

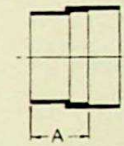
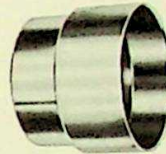


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
3	35	1.10	2 3/32
4	15	2.25	1

DWV FITTING ADAPTERS

20-134

FTG. x LEAD

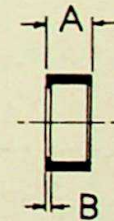
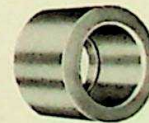


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
3	40	.92	1 27/32

DWV FITTING FLUSH BUSHINGS

20-140

FTG. x C

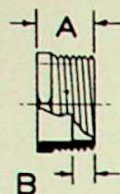


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/2 x 1 1/4	—	.13	1 1/16	1/16
2 x 1 1/2	—	.35	3/4	1/16
2 x 1 1/4	—	.49	3/4	1/8
3 x 2	—	1.15	1 5/16	3/16
3 x 1 1/2	—	1.07	1 5/16	1/4
4 x 3	—	1.75	1 3/16	1/4

DWV TRAP ADAPTERS

20-144

C x M

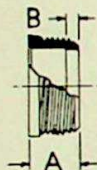
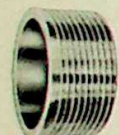


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	—	.25	1 1/16	7/16
1 1/2	100	.29	3/4	1/16
1 1/2 x 1 1/4	—	.43	1 1/8	1/2
2	—	.39	1 3/16	15/32
2 x 1 1/2	—	.76	1 3/16	1/2
3	—	1.26	1 15/32	17/32

DWV FLUSH TRAP ADAPTERS

20-145

C x M

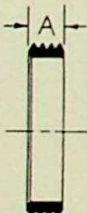


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	—	.15	15/16	5/16
1 1/2	—	.20	1	5/16
1 1/2 x 1 1/4	—	.32	15/16	5/16
2	—	.25	1 1/16	5/16
3	—	.88	1 9/16	21/32

DWV MARVEL THREAD PIECES

20-146

C x SJ

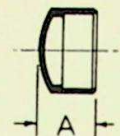
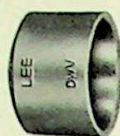


Nominal Size	Approx. Net Wt.	Dim. "A"
1 1/4	.05	3/8
1 1/2	.06	3/8
1 1/2 x 1 1/4	—	3/8
2	.06	3/8

DWV CAPS

20-154

C

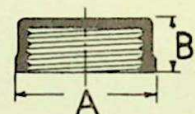


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4	200	.20	1 1/16
1 1/2	175	.25	1 3/16
2	100	.40	1 5/16
3	25	.91	1 11/16
4	10	1.60	2 1/16

DWV CAPS

26-155

THREADED

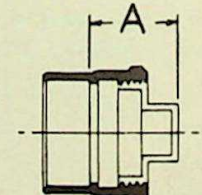
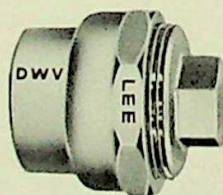


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/2	—	.34	2 3/16	7/8
2	—	.53	2 11/16	1

DWV TUBE CLEANOUTS

20-160

C x CLEANOUT w/PLUG

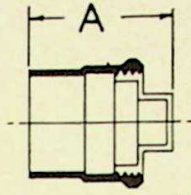
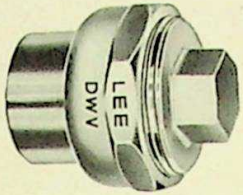


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4	—	.64	1 13/32
1 1/2	150	.54	1 7/16
2	100	1.36	1 9/16
3	40	2.44	2 1/4
4	—	4.70	2 5/8

DWV FITTING CLEANOUTS

20-161

FTG x CLEANOUT w/PLUG

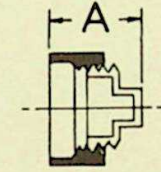
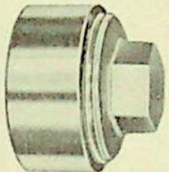


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4	100	.36	2 3/16
1 1/2	60	.53	2 3/8
2	50	.79	2 9/16
3	25	1.27	3 1/4
4	12	2.91	3 1/2

DWV FLUSH FITTING CLEANOUTS

20-162

FTG x CLEANOUT w/PLUG

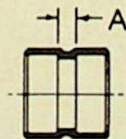


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4	—	.18	1 1/4
1 1/2	200	.22	1 3/8
2	125	.33	1 1/2
3	50	.78	1 3/4

DWV COUPLINGS

20-165

C x C



Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/4	150	.23	3/8
1 1/2	150	.20	3/8
1 1/2 x 1 1/4	100	.28	3/8
2	50	.41	3/8

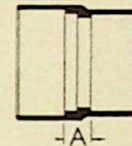
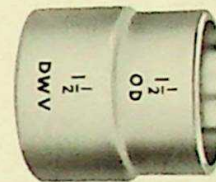
20-165 (CONTINUED)

Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
2 x 1 1/2	60	.46	1/2
2 x 1 1/4	60	.45	1/2
2 1/2	25	.70	7/16
3	20	.97	7/16
3 x 2	25	1.00	5/8
3 x 1 1/2	25	1.04	5/8
3 1/2	12	1.42	7/16
4	20	1.85	7/16
4 x 3	25	1.56	1 1/16
4 x 2	25	1.75	1 3/16
4 x 1 1/2	30	—	1

DWV TRAP ADAPTERS

20-180

C x O.D. TUBE

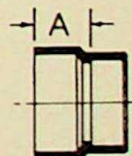
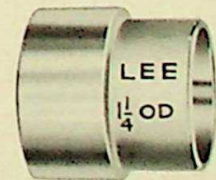


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/2 x 1 1/2 O.D.	100	.26	3/8
1 1/2 x 1 1/4 O.D.	100	.24	1/4

DWV TRAP ADAPTERS

20-181

FTG. x O.D. TUBE

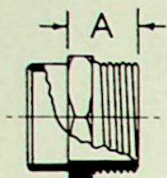
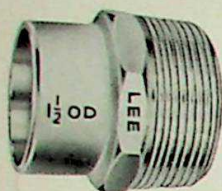


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/2 x 1 1/2 O.D.	150	.19	3/8
1 1/2 x 1 1/4 O.D.	200	.18	3/8

DWV TRAP ADAPTERS

20-182

O.D. TUBE x M

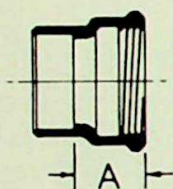


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/2 O.D. x 1 1/2 M	100	.39	1 3/16
1 1/4 O.D. x 1 1/2 M	100	.45	1 3/16

DWV TRAP ADAPTERS

20-183

O.D. TUBE x F

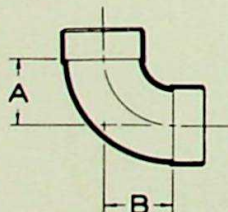
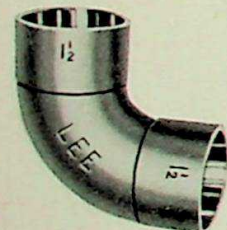


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/2 O.D. x 1 1/2 F	150	.42	2 9/32
1 1/4 O.D. x 1 1/2 F	80	.41	1

DWV 90° ELLS

20-235

C x C



Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	175	.36	1 1/8	1 1/8
1 1/2	100	.51	1 3/8	1 3/8
1 1/2 x 1 1/4	125	.50	1 3/16	1 5/16
2	40	.86	1 7/8	1 7/8
2 x 1 1/2	65	.83	1 7/16	1 11/16
2 x 1 1/4	75	.78	1 3/16	1 9/16

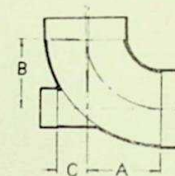
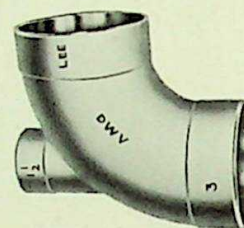
20-235 (CONTINUED)

Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
2 1/2	25	1.70	2 7/16	2 7/16
3	20	2.35	2 27/32	2 27/32
3 x 2	25	1.79	1 15/16	2 7/16
4	10	4.50	3 3/4	3 3/4
4 x 3	15	3.33	2 13/16	3
5	3	10.25	4 3/4	4 3/4
6	2	—	5 21/32	5 21/32

DWV 90° ELLS WITH LOW HEEL INLET

20-240

C x C x C

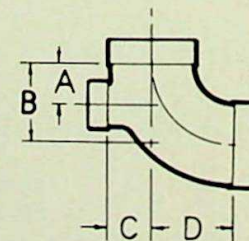
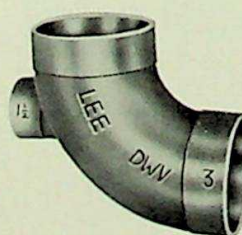


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3 x 3 x 2	20	2.70	2 27/32	2 27/32	1 1/4
3 x 3 x 1 1/2	20	2.65	2 27/32	2 27/32	1 5/32
4 x 4 x 2	8	—	3 3/4	3 3/4	1 1/2

DWV 90° ELLS WITH HIGH HEEL INLET

20-241

C x C x C



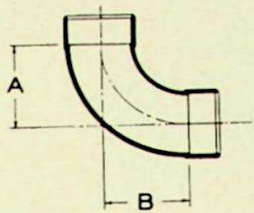
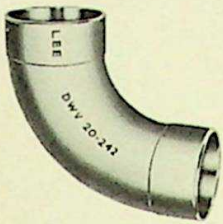
Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
3 x 3 x 2	20	2.70	1 17/32	2 15/16	1 21/32	2 15/16
3 x 3 x 1 1/2	20	2.66	1 11/32	2 27/32	1 19/32	2 27/32
3 x 3 x 1 1/4	30	2.37	1 7/16	2 27/32	1 9/16	2 27/32
4 x 4 x 2	12	4.00	1 7/8	3 3/4	2 7/8	3 3/4

CAST DRAINAGE

DWV 90° LONG RADIUS ELLS

20-242

C x C

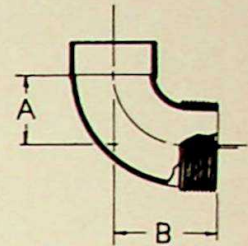


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1½	75	.78	2⅛	2⅛
2	35	1.40	2¾	2¾
3	—	3.62	4¼	4¼
4 x 3	—	—	3⅞	3⅞

DWV 90° ELLS

20-255

C x M

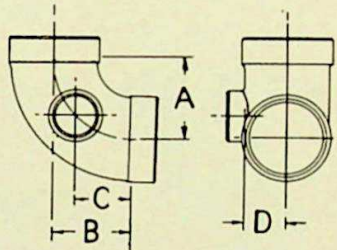


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1¼	150	.59	1⅜	1⅞
1½	100	.67	1⅞	2⅞
2	40	1.23	1⅝	2⅝
3	30	4.13	2⅝	3⅝

DWV 90° ELLS WITH SIDE INLET

20-247

C x C x C

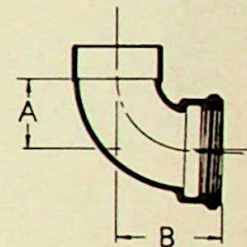


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
3 x 3 x 2	20	2.50	2⅞	2⅞	2	1⅝
3 x 3 x 1½	20	2.45	2⅞	2⅞	2	1⅝
4 x 4 x 2	8	4.60	3¾	3¾	2⅞	2⅞
4 x 4 x 1½	15	4.40	3¾	3¾	2⅞	2⅞

DWV 90° ELLS

20-257

C x F

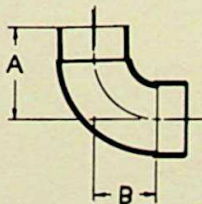


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1¼	100	.53	1⅞	1⅝
1½	75	.73	1⅞	2⅞
1½ x 1¼	100	.71	1⅞	1⅝
2	40	1.30	1⅞	2⅞
2 x 1½	50	.92	1⅞	2⅞
3	15	4.04	2⅞	3⅞
4	15	5.20	3¾	4⅞

DWV 90° FITTING ELLS

20-254

FTG. x C

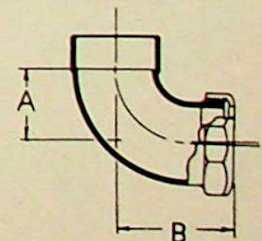


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1¼	150	.39	1⅞	1⅝
1½	100	.58	2⅞	1⅞
2	40	.95	2¾	1⅞
3	20	2.20	3⅞	2⅞
3 x 4	15	3.40	4⅞	3
4	10	4.20	5	3¾

DWV 90° TRAP ELLS

20-263

C x SJ



Lee Bros. Cat. 64
8/10/64

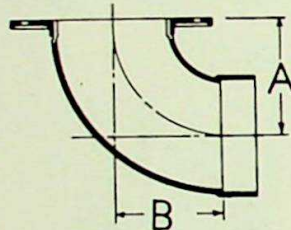
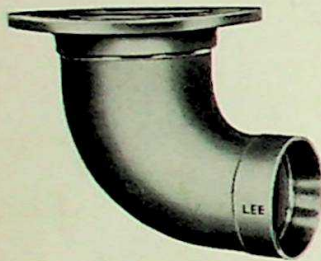
20-263 (CONTINUED)

Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1¼ x 1¼ O.D.	125	.60	1½	2¾
1½ x 1½ O.D.	75	.75	1¾	2¾
1½ x 1¼ O.D.	100	.69	1½	2¾
2 x 2 O.D.	—	1.28	1¾	2¾

DWV 90° CLOSET ELLS AND FLANGES

20-269

FTG. x C
(FLANGE INCLUDED —
LESS FLANGE SPECIFY 20-355)

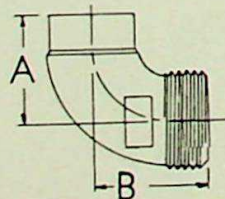
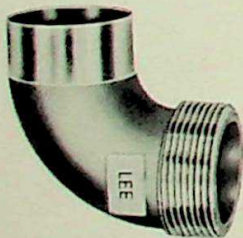


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
3	—	4.40	3½	2½
3 x 4	—	6.02	4¾	3½
4	—	5.31	4¾	3¾

DWV 90° FITTING ELLS

20-270

FTG. x M

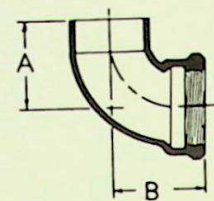
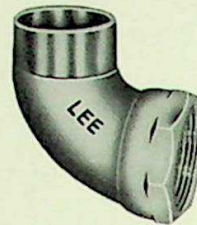


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1½	100	.64	2¾	2½

DWV 90° FITTING ELLS

20-271

FTG. x F

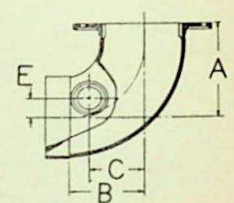
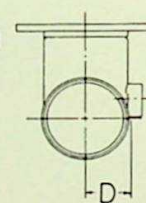
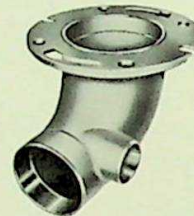


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1¼	60	.55	1¾	1½
1½	75	.74	2½	2½

DWV 90° CLOSET ELLS AND FLANGES WITH LEFT SIDE INLET

20-275

FTG. x C x C
(FLANGE INCLUDED — LESS FLANGE
SPECIFY 20-359)



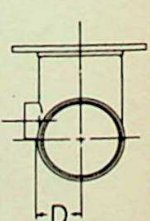
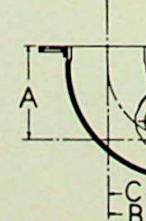
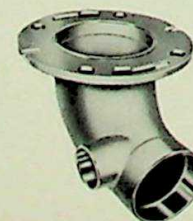
Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3 x 4 x 1½	—	4.81	4¾	3¾	2½	1¾	¾
4 x 4 x 1½	—	5.53	5½	3¾	2½	2¾	1½

To determine position of side inlet, look down line of flow from top of bend.

DWV 90° CLOSET ELLS AND FLANGES WITH RIGHT SIDE INLET

20-276

FTG. x C x C
(FLANGE INCLUDED — LESS FLANGE
SPECIFY 20-360)



To determine position of side inlet, look down line of flow from top of bend.

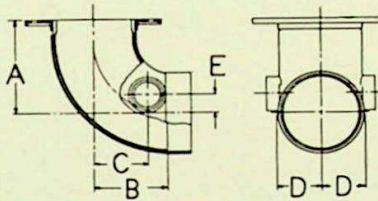
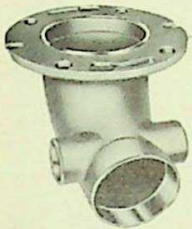
20-276 (CONTINUED)

Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3 x 4 x 1 1/2	—	5.19	4 7/16	3 13/16	2 13/16	1 23/32	9/16
4 x 4 x 1 1/2	—	5.56	5 1/16	3 3/4	2 11/16	2 3/32	1 1/32

DWV 90° CLOSET ELLS AND FLANGES WITH RIGHT & LEFT SIDE INLETS

20-277

FTG. x C x C x C
(FLANGE INCLUDED — LESS FLANGE SPECIFY 20-358)

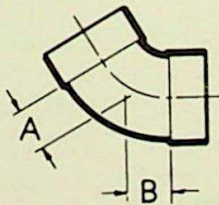
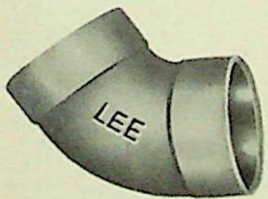


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3 x 4 x 1 1/2	5.01	4 7/16	3 13/16	2 13/16	1 23/32	9/16
4 x 4 x 1 1/2	5.62	5 1/16	3 3/4	2 11/16	2 3/32	1 1/32

DWV 60° ELLS

20-285

C x C

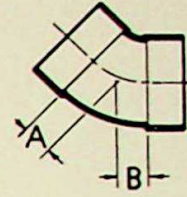
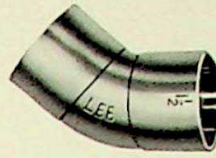


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	100	.25	1 1/16	1 1/16
1 1/2	60	.48	1 3/16	1 3/16
2	30	.80	1 1/8	1 1/8
3	15	2.80	1 11/16	1 11/16
4	8	3.34	2 1/8	2 1/8

DWV 45° ELLS

20-290

C x C

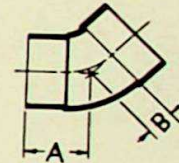
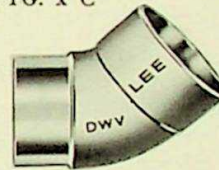


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	100	.25	7/16	7/16
1 1/2	150	.35	1/2	1/2
2	40	.60	3/4	3/4
2 1/2	20	1.04	1	1
3	25	1.35	1 3/32	1 3/32
4	8	3.44	1 1/2	1 1/2

DWV 45° FITTING ELLS

20-295

FTG. x C

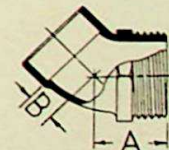


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	100	.27	1 3/16	1/2
1 1/2	75	.35	1 1/4	1/2
2	30	.66	1 5/8	1 3/16
3	25	1.36	2 3/32	1 3/32
4	10	2.69	2 3/4	1 1/2

DWV 45° ELLS

20-296

C x M

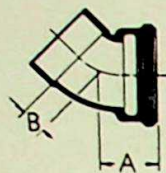


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	175	.50	1 7/16	1/2
1 1/2	100	.66	1 9/16	9/16
2	60	1.01	1 27/32	1 3/16

DWV 45° ELLS

20-297

C x F

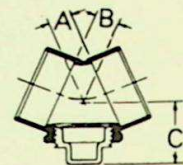
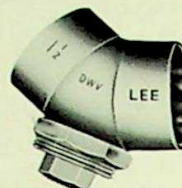


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	150	.49	1 9/32	1/2
1 1/2	100	.67	1 11/32	9/16
2	50	1.20	1 5/8	1 3/16

DWV 45° ELLS WITH CLEANOUT

20-304

C x C x CLEANOUT w/PLUG

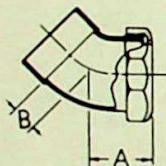


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/4	65	.44	1/2	1/2	1 3/8
1 1/2	50	.51	1/2	1/2	1 15/32
2	65	.86	3/4	3/4	1 23/32

DWV 45° TRAP ELLS

20-299

C x SJ

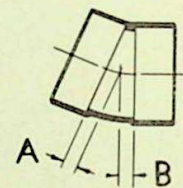
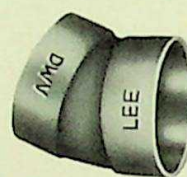


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4 x 1 1/4 O.D.	75	.58	1 9/32	3/8
1 1/2 x 1 1/2 O.D.	50	.69	1 5/8	7/16

DWV 22 1/2° ELLS

20-310

C x C

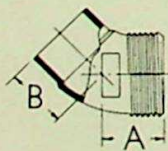


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	150	.25	3/16	3/16
1 1/2	100	.32	1/4	1/4
2	45	.47	3/8	3/8
3	30	1.25	9/16	9/16
4	15	1.94	5/8	5/8

DWV 45° FITTING ELLS

20-300

FTG. x M

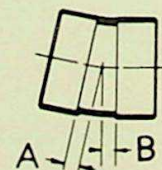


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	100	.35	1 3/16	1 5/16
1 1/2	60	.48	1 5/16	1 5/16

DWV 11 1/4° ELLS

20-315

C x C

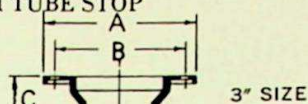
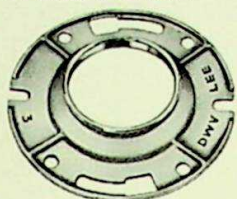


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	150	.18	1/8	1/8
1 1/2	100	.23	1/8	1/8
2	50	.40	3/16	3/16
3	20	.90	1/4	1/4
4	15	1.70	5/16	5/16

DWV CLOSET FLANGES

20-340

(LESS TUBE STOP — WITH TUBE STOP
SPECIFY 20-343)



3" SIZE



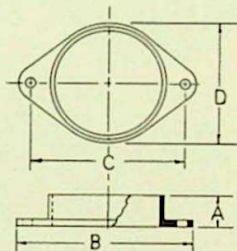
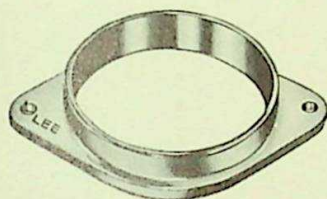
4" SIZE

Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3	50	2.05	6 $\frac{15}{16}$	6	1 $\frac{1}{2}$
4	50	1.20	6 $\frac{15}{16}$	6	$\frac{9}{16}$

DWV FLOOR FLANGE VENT SUPPORTS

20-351

C



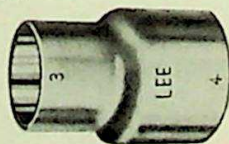
Nominal Size	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
*1 $\frac{1}{2}$	$\frac{9}{16}$	2 $\frac{25}{32}$	2 $\frac{3}{32}$	—
3	1 $\frac{15}{16}$	5 $\frac{1}{8}$	4 $\frac{1}{2}$	3 $\frac{3}{8}$

*ROUND FLANGE WITH 4 HOLES
FOR WOOD SCREWS

DWV VENT INCREASERS

20-370

C x C

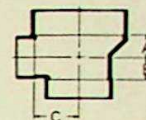


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 $\frac{1}{4}$ x 1 $\frac{1}{2}$	125	.28	$\frac{1}{4}$
1 $\frac{1}{4}$ x 2	—	.45	$\frac{3}{8}$
1 $\frac{1}{2}$ x 4	25	1.35	$\frac{7}{8}$
1 $\frac{1}{2}$ x 3	25	.93	$\frac{5}{16}$
1 $\frac{1}{2}$ x 2	60	.46	$\frac{3}{8}$
2 x 4	25	1.75	1 $\frac{5}{16}$
2 x 3	20	1.00	$\frac{1}{2}$
3 x 4	25	1.56	$\frac{9}{16}$

DWV VENT INCREASERS WITH SIDE INLET

20-371

C x C x C

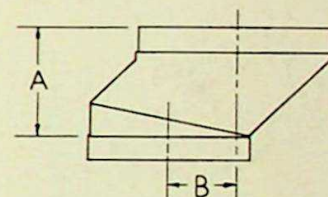


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3 x 4 x 2	30	2.22	1 $\frac{3}{16}$	1 $\frac{3}{16}$	2 $\frac{3}{32}$
3 x 4 x 1 $\frac{1}{2}$	35	2.00	1 $\frac{5}{16}$	1 $\frac{5}{16}$	2 $\frac{3}{32}$

DWV CLOSET OFFSET FITTINGS

20-373

FTG. x C

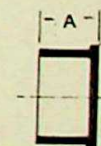


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
4	2.20	2 $\frac{1}{2}$	1 $\frac{27}{32}$
4 x 3	1.80	2 $\frac{1}{2}$	1 $\frac{1}{16}$

DWV FITTING PLUGS

20-396

FTG.

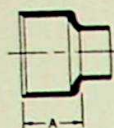


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 $\frac{1}{4}$	250	.12	1 $\frac{5}{16}$
1 $\frac{1}{2}$	150	.20	1
2	100	.35	1 $\frac{1}{16}$
3	30	.75	1 $\frac{5}{16}$

DWV EXTENDED BUSHINGS

20-410

FTG. x C

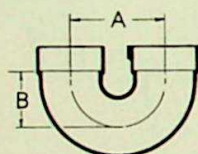


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"
1 1/2 x 1 1/4	150	.20	1
2 x 1 1/2	80	.33	1 1/16
2 x 1 1/4	100	.29	1 1/16
3 x 2	30	.82	1 9/32
3 x 1 1/2	40	.65	1 1/4
3 x 1 1/4	50	.54	1 1/16
4 x 3	40	1.12	1 5/16
4 x 2	40	1.10	1 13/16

DWV RETURN BENDS

20-418

C x C

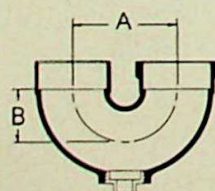


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	—	.64	2 1/4	1 1/8
1 1/2	50	.96	2 1/2	1 9/32
2	30	1.65	2 15/16	1 17/32
2 x 1 1/2	25	1.98	3	2 1/2

DWV RETURN BENDS WITH CLEANOUT

20-419

C x C x CLEANOUT w/PLUG



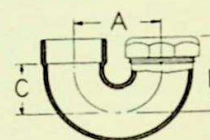
20-419 (CONTINUED)

Nominal Size	Carton	Master Net Wt.	Approx. "A"	Dim. "B"
1 1/4	80	.70	2 1/4	1 1/8
1 1/2	50	1.09	2 1/2	1 9/32
2	25	1.68	3	1 21/32

DWV TRAP RETURN BENDS

20-422

C x SJ

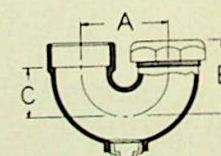


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/4 x 1 1/4 O.D.	—	.86	2 1/4	2 3/32	1 1/8
1 1/2 x 1 1/2 O.D.	50	1.25	2 1/2	2 7/32	1 9/32
2 x 2 O.D.	—	1.75	2 15/16	2 19/32	1 17/32

DWV TRAP RETURN BENDS WITH CLEANOUT

20-423

C x SJ x CLEANOUT w/PLUG

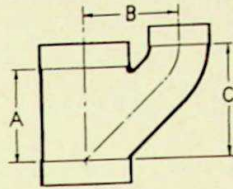


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/4 x 1 1/4 O.D.	—	.99	2 1/4	2 3/32	1 1/8
1 1/2 x 1 1/2 O.D.	50	1.20	2 1/2	2 7/32	1 9/32
2 x 2 O.D.	25	1.97	3	2 23/32	1 21/32

DWV STACK UPTURNS

20-447

C x C x C

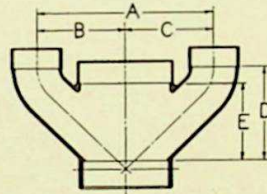
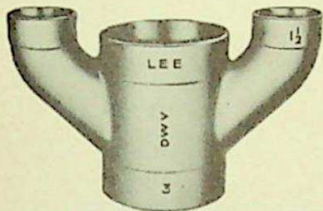


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3 x 3 x 2	10	2.79	3 ⁷ / ₁₆	3 ¹³ / ₃₂	4 ³ / ₁₆
3 x 3 x 1 ¹ / ₂	15	2.10	2 ¹¹ / ₁₆	3 ⁵ / ₃₂	3 ³ / ₄

DWV DOUBLE STACK UPTURNS

20-448

C x C x C x C

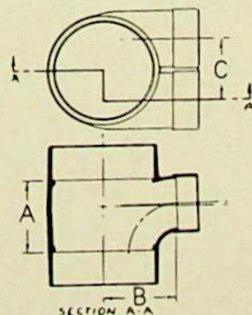


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3 x 3 x 2 x 2	30	3.43	6 ¹³ / ₁₆	3 ¹³ / ₃₂	3 ¹³ / ₃₂	4 ³ / ₁₆	3 ⁷ / ₁₆
3 x 3 x 1 ¹ / ₂ x 1 ¹ / ₂	20	2.53	6 ⁵ / ₁₆	3 ⁵ / ₃₂	3 ⁵ / ₃₂	3 ⁷ / ₁₆	2 ¹¹ / ₁₆

DWV HORIZONTAL TWIN BRANCH TEES

26-449

C x C x C x C

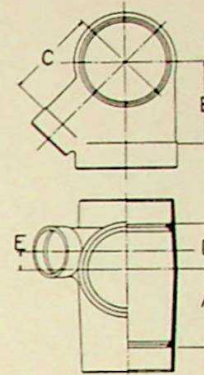


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3 x 3 x 1 ¹ / ₂ x 1 ¹ / ₂	35	4.19	2 ⁷ / ₁₆	2 ⁷ / ₃₂	1 ²⁹ / ₃₂
3 x 3 x 1 ¹ / ₄ x 1 ¹ / ₄	—	2.05	1 ⁷ / ₈	2 ¹ / ₁₆	1 ²⁹ / ₃₂

DWV TEES WITH 45° LEFT INLET

20-450

C x C x C x C

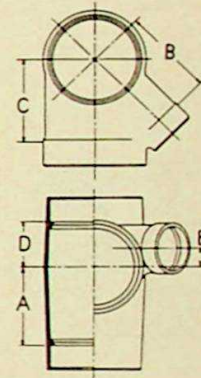
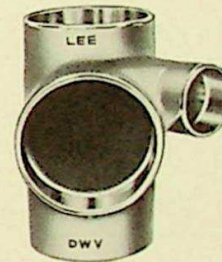


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3 x 3 x 3 x 2	12	3.69	2 ²⁷ / ₃₂	2 ³¹ / ₃₂	3 ¹ / ₄	1 ⁵ / ₈	1 ¹ / ₂
3 x 3 x 3 x 1 ¹ / ₂	12	3.66	2 ²⁷ / ₃₂	2 ³¹ / ₃₂	3 ³ / ₁₆	1 ⁵ / ₈	2 ³ / ₃₂

DWV TEES WITH 45° RIGHT INLET

20-451

C x C x C x C

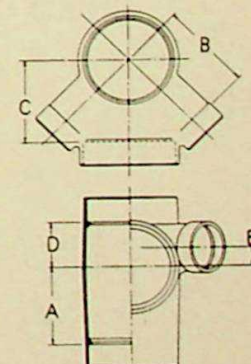
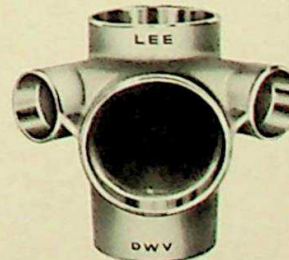


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3 x 3 x 3 x 2	12	3.76	2 ²⁷ / ₃₂	2 ³¹ / ₃₂	3 ¹ / ₄	1 ⁵ / ₈	1 ¹ / ₂
3 x 3 x 3 x 1 ¹ / ₂	12	3.83	2 ²⁷ / ₃₂	2 ³¹ / ₃₂	3 ³ / ₁₆	1 ⁵ / ₈	2 ³ / ₃₂

DWV TEES WITH 45° LEFT & RIGHT INLETS

20-452

C x C x C x C x C

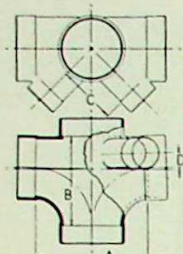
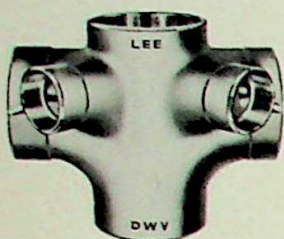


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3x3x3x2 x2	10	4.09	2 ²⁷ / ₃₂	2 ³¹ / ₃₂	3 ¹ / ₄	1 ⁵ / ₈	1 ¹ / ₂
3x3x3x1 ¹ / ₂ x1 ¹ / ₂	10	3.87	2 ²⁷ / ₃₂	2 ³¹ / ₃₂	3 ³ / ₁₆	1 ⁵ / ₈	2 ³ / ₃₂

DWV DOUBLE TEES WITH TWO 45° SIDE INLETS ON SAME SIDE

26-453

C x C x C x C x C x C

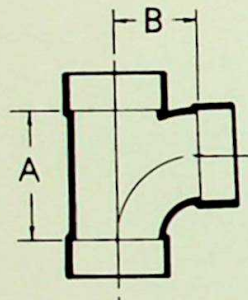
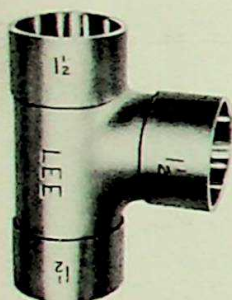


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
3x3x3x3x2x2	—	5.00	5 ²⁹ / ₃₂	4 ¹⁵ / ₃₂	3 ¹ / ₄	1 ¹ / ₂
3x3x3x3x1 ¹ / ₂ x1 ¹ / ₂	—	4.45	5 ²⁹ / ₃₂	4 ¹⁵ / ₃₂	3 ³ / ₁₆	2 ³ / ₃₂

DWV TEES

20-460

C x C x C



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 ¹ / ₄	.52	1 ¹³ / ₁₆	1 ¹ / ₈
1 ¹ / ₂	.74	2 ³ / ₁₆	1 ³ / ₈
1 ¹ / ₂ x 1 ¹ / ₂ x 1 ¹ / ₄	.59	1 ¹³ / ₁₆	1 ¹ / ₄
1 ¹ / ₂ x 1 ¹ / ₄ x 1 ¹ / ₂	.68	2 ¹ / ₄	1 ⁷ / ₁₆
1 ¹ / ₂ x 1 ¹ / ₄ x 1 ¹ / ₄	.60	1 ¹³ / ₁₆	1 ⁷ / ₁₆
2	1.21	2 ⁷ / ₈	1 ⁷ / ₈
2 x 2 x 1 ¹ / ₂	.87	2 ³ / ₃₂	1 ⁵ / ₈
2 x 2 x 1 ¹ / ₄	.84	1 ⁷ / ₈	1 ⁹ / ₁₆
2 x 1 ¹ / ₂ x 2	1.16	2 ²⁵ / ₃₂	1 ⁷ / ₈
2 x 1 ¹ / ₂ x 1 ¹ / ₂	.78	2 ³ / ₃₂	1 ⁵ / ₈
2 x 1 ¹ / ₂ x 1 ¹ / ₄	1.14	1 ⁷ / ₈	1 ⁹ / ₁₆
2 x 1 ¹ / ₄ x 2	1.24	2 ¹⁵ / ₁₆	1 ¹⁵ / ₁₆
2 ¹ / ₂	2.13	3 ¹⁹ / ₃₂	2 ³ / ₈
3	2.87	4 ¹¹ / ₃₂	2 ²⁷ / ₃₂
3 x 3 x 4	3.65	4 ¹⁵ / ₁₆	2 ¹³ / ₁₆
3 x 3 x 2	2.00	2 ²⁷ / ₃₂	2 ¹¹ / ₃₂
3 x 3 x 1 ¹ / ₂	1.53	2 ⁵ / ₃₂	2 ³ / ₃₂
3 x 3 x 1 ¹ / ₄	1.44	1 ⁷ / ₈	2 ¹ / ₁₆
*3 x 2 x 3	2.46	4 ³ / ₃₂	2 ²⁷ / ₃₂
3 x 2 x 2	1.87	2 ²⁹ / ₃₂	2 ⁷ / ₁₆
3 x 2 x 1 ¹ / ₂	1.57	2 ⁹ / ₃₂	2 ³ / ₁₆
3 x 1 ¹ / ₂ x 1 ¹ / ₂	1.50	2 ¹ / ₈	2 ³ / ₁₆
*3 x 1 ¹ / ₂ x 3	—	4	2 ²⁷ / ₃₂
4	6.57	5 ¹¹ / ₁₆	3 ³ / ₄

20-460 (CONTINUED)

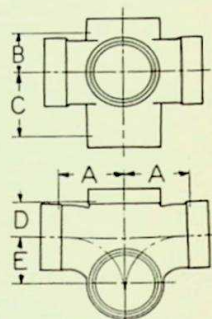
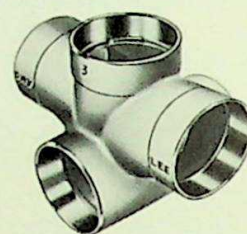
Size Nominal	Approx. Net Wt.	Dim. "A"	Dim. "B"
4 x 4 x 3	4.50	4 ⁷ / ₁₆	3 ⁷ / ₁₆
4 x 4 x 2	3.67	2 ¹⁵ / ₁₆	2 ⁷ / ₈
4 x 4 x 1 ¹ / ₂	2.80	2 ¹ / ₄	2 ⁵ / ₈
4 x 4 x 1 ¹ / ₄	2.35	1 ⁷ / ₈	2 ¹ / ₂
*4 x 2 x 4	—	5 ¹ / ₄	3 ³ / ₄

*For reducing on the run specify 26-460

DWV TEES WITH 2 SIDE INLETS ABOVE CENTER OF RUN

26-461

C x C x C x C x C

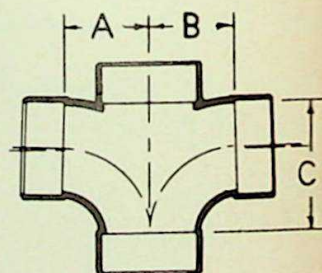
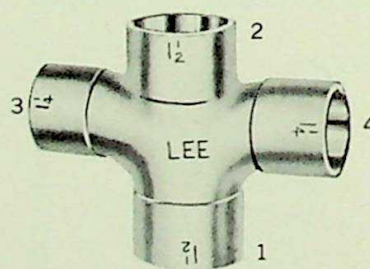


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3	5.44	2 ²⁷ / ₃₂	1 ¹¹ / ₁₆	2 ²³ / ₃₂	1 ¹ / ₂	2 ⁷ / ₃₂

DWV DOUBLE TEES

20-465

C x C x C x C



Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 ¹ / ₄	75	.62	1 ¹³ / ₁₆	1 ¹³ / ₁₆	1 ⁷ / ₈
1 ¹ / ₂	50	.84	1 ³ / ₈	1 ³ / ₈	2 ³ / ₁₆
1 ¹ / ₂ x 1 ¹ / ₂ x 1 ¹ / ₄ x 1 ¹ / ₄	50	.78	1 ¹ / ₄	1 ¹ / ₄	1 ¹³ / ₁₆
2	20	1.55	1 ¹⁵ / ₁₆	1 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆
2 x 2 x 1 ¹ / ₂ x 1 ¹ / ₂	30	1.16	1 ⁵ / ₈	1 ⁵ / ₈	2 ³ / ₃₂
2 x 2 x 1 ¹ / ₄ x 1 ¹ / ₄	40	1.08	1 ⁷ / ₈	1 ⁷ / ₈	1 ⁹ / ₁₆
2 x 1 ¹ / ₂ x 1 ¹ / ₂ x 1 ¹ / ₂	35	1.20	1 ⁵ / ₈	1 ⁵ / ₈	2 ³ / ₃₂
3	10	4.20	2 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	4 ⁷ / ₁₆
3 x 3 x 1 ¹ / ₄ x 1 ¹ / ₄	30	1.50	2 ¹ / ₁₆	2 ¹ / ₁₆	1 ⁷ / ₈
3 x 3 x 4 x 4	10	4.60	2 ¹³ / ₁₆	2 ¹³ / ₁₆	4 ¹⁵ / ₁₆
3 x 3 x 2 x 2	20	2.60	2 ¹ / ₄	2 ¹ / ₄	2
3 x 3 x 1 ¹ / ₂ x 1 ¹ / ₂	25	1.70	2 ³ / ₃₂	2 ³ / ₃₂	2 ⁵ / ₃₂

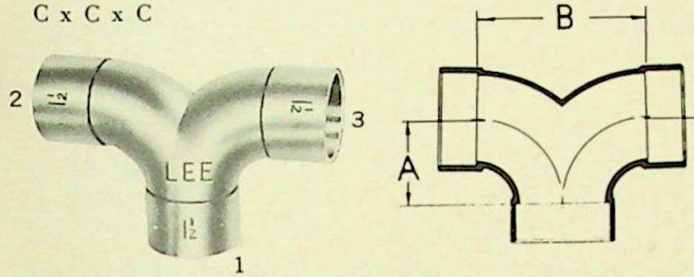
20-465 (CONTINUED)

Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
4	8	7.20	3 $\frac{3}{4}$	3 $\frac{3}{4}$	5 $\frac{11}{16}$
4 x 4 x 3 x 3	7	5.00	—	—	—
4 x 4 x 2 x 2	15	3.50	2 $\frac{7}{8}$	2 $\frac{7}{8}$	2 $\frac{15}{16}$

DWV DOUBLE ELLS

20-466

C x C x C

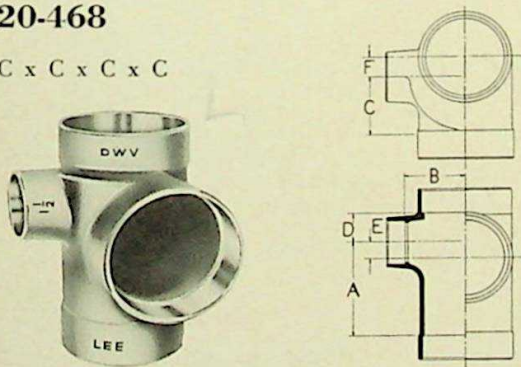


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 $\frac{1}{4}$	75	.57	1 $\frac{3}{16}$	2 $\frac{3}{8}$
1 $\frac{1}{2}$	50	.88	1 $\frac{7}{16}$	2 $\frac{7}{8}$
1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 1 $\frac{1}{4}$	75	.70	1 $\frac{3}{16}$	2 $\frac{5}{8}$
2	25	1.55	1 $\frac{15}{16}$	3 $\frac{7}{8}$
2 x 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$	40	.95	2 $\frac{1}{8}$	3 $\frac{7}{32}$
2 x 1 $\frac{1}{4}$ x 1 $\frac{1}{4}$	40	—	1 $\frac{7}{8}$	2 $\frac{31}{32}$
3	12	3.35	2 $\frac{27}{32}$	5 $\frac{21}{32}$

DWV TEES WITH 90° LEFT INLET

20-468

C x C x C x C



Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"	Dim. "F"
1 $\frac{1}{2}$	50	.93	—	—	—	—	—	—
3x3x3x2	10	3.60	3 $\frac{7}{32}$	2 $\frac{1}{4}$	2 $\frac{3}{16}$	1 $\frac{5}{16}$	1 $\frac{3}{32}$	3 $\frac{1}{4}$
3x3x3x1 $\frac{1}{2}$	12	3.39	3 $\frac{1}{2}$	2 $\frac{1}{4}$	2 $\frac{3}{16}$	1 $\frac{1}{32}$	2 $\frac{1}{32}$	3 $\frac{1}{4}$
*3x3x4x1 $\frac{1}{2}$	15	5.75	2 $\frac{27}{32}$	2 $\frac{3}{32}$	2 $\frac{27}{32}$	1 $\frac{1}{2}$	—	—
4x4x4x2	5	6.35	4 $\frac{3}{4}$	2 $\frac{3}{4}$	3 $\frac{3}{4}$	1 $\frac{1}{4}$	1	—
4x4x4x1 $\frac{1}{2}$	5	5.70	4 $\frac{3}{4}$	2 $\frac{3}{4}$	3 $\frac{3}{4}$	1 $\frac{1}{4}$	1	—

*Inlet on center line.
¹See Utility Tee 20-499

DWV TEES WITH 90° RIGHT INLET

20-469

C x C x C x C



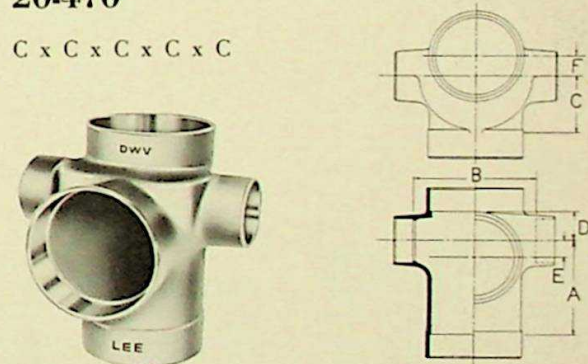
Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"	Dim. "F"
1 $\frac{1}{2}$	50	.93	—	—	—	—	—	—
3x3x3x2	10	3.65	3 $\frac{7}{32}$	2 $\frac{1}{4}$	2 $\frac{3}{16}$	1 $\frac{5}{16}$	1 $\frac{3}{32}$	3 $\frac{1}{4}$
3x3x3x1 $\frac{1}{2}$	12	3.33	3 $\frac{1}{2}$	2 $\frac{1}{4}$	2 $\frac{3}{16}$	1 $\frac{1}{32}$	2 $\frac{1}{32}$	3 $\frac{1}{4}$
*3x3x4x1 $\frac{1}{2}$	15	6.00	2 $\frac{27}{32}$	2 $\frac{3}{32}$	2 $\frac{27}{32}$	1 $\frac{1}{2}$	—	—
4x4x4x2	5	6.05	4 $\frac{3}{4}$	2 $\frac{3}{4}$	3 $\frac{3}{4}$	1 $\frac{1}{4}$	1	—
4x4x4x1 $\frac{1}{2}$	5	5.92	4 $\frac{3}{4}$	2 $\frac{3}{4}$	3 $\frac{3}{4}$	1 $\frac{1}{4}$	1	—

*Inlet on center line.
¹See Utility Tee 20-499

DWV TEES WITH 90° RIGHT & LEFT INLETS

20-470

C x C x C x C x C

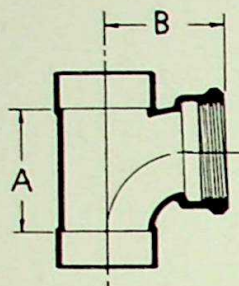
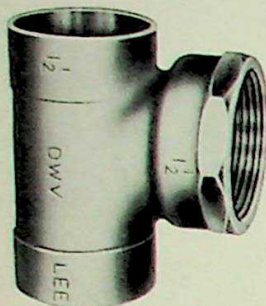


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"	Dim. "F"
3x3x3x2 x2	10	3.44	3 $\frac{7}{32}$	4 $\frac{1}{2}$	2 $\frac{3}{32}$	2 $\frac{7}{32}$	3 $\frac{1}{4}$	—
3x3x3x1 $\frac{1}{2}$ x1 $\frac{1}{2}$	10	3.85	3 $\frac{1}{2}$	4 $\frac{1}{2}$	2 $\frac{3}{16}$	1 $\frac{1}{32}$	2 $\frac{1}{32}$	—
4x4x4x2 x2	4	7.20	4 $\frac{3}{4}$	5 $\frac{1}{2}$	3 $\frac{3}{4}$	1 $\frac{1}{4}$	1	—
4x4x4x1 $\frac{1}{2}$ x1 $\frac{1}{2}$	5	6.40	4 $\frac{3}{4}$	2 $\frac{3}{4}$	3 $\frac{3}{4}$	1 $\frac{1}{4}$	1	—

DWV TEES

20-480

C x C x F

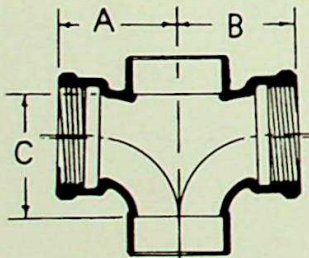
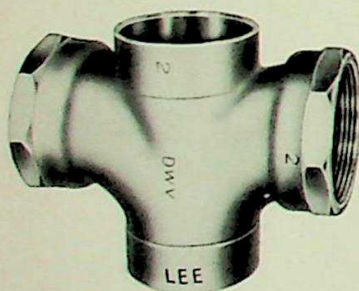


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	75	.93	1 7/8	1 7/8
1 1/2	50	.90	1 3/32	2 1/16
1 1/2 x 1 1/2 x 1 1/4	65	.88	1 7/8	2 1/8
2	25	1.50	2 7/8	2 5/8
2 x 2 x 1 1/2	35	1.20	2 1/4	2 3/8
2 x 2 x 1 1/4	40	1.00	1 13/16	2 3/16
2 x 1 1/2 x 2	30	1.31	2 25/32	2 5/8
2 x 1 1/2 x 1 1/2	40	1.16	2 3/32	2 5/16
3	12	5.50	4 7/16	4 15/16
3 x 3 x 2	25	2.50	2 15/16	3 3/16
3 x 3 x 1 1/2	30	1.90	2 1/4	2 7/8

DWV DOUBLE TEES

20-483

C x C x F x F

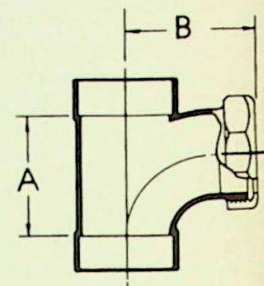
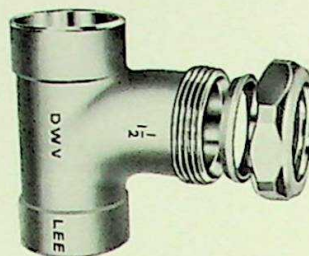


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/2	35	1.53	2 1/4	2 1/4	2 1/2
2	20	2.10	2 5/8	2 5/8	2 7/8
2x2x1 1/2x1 1/2	30	1.74	2 3/4	2 3/4	3

DWV TRAP TEES

20-484

C x C x SJ

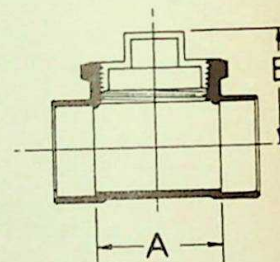
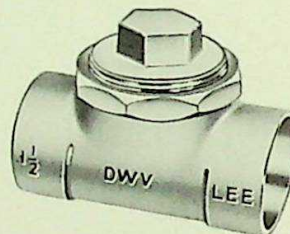


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4 x 1 1/4 x 1 1/4 O.D.	75	.92	2	2 15/32
1 1/2 x 1 1/2 x 1 1/2 O.D.	50	.99	2 3/32	2 1/2
1 1/2 x 1 1/2 x 1 1/4 O.D.	—	.90	1 25/32	2 13/32
2 x 2 x 2 O.D.	—	1.32	2 29/32	2 27/32

DWV TEST TEES

20-485

C x C x CLEANOUT w/PLUG

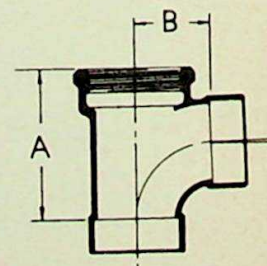
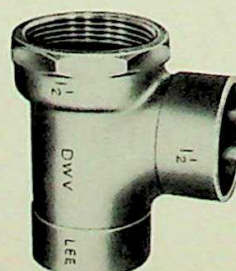


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	—	1.02	2	1 13/16
1 1/2	65	.86	2 3/32	2
2	30	1.48	2 7/16	2 5/16
3	20	3.79	2 21/32	3 3/8
4	14	6.80	2 7/8	4 1/16

DWV TEES

20-492

C x F x C



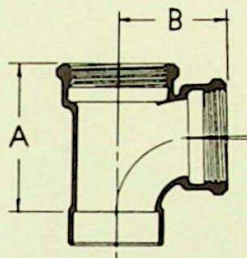
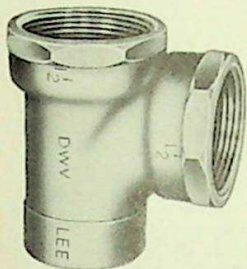
20-492 (CONTINUED)

Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	75	.74	2 13/32	1 1/8
1 1/2	50	.84	2 25/32	1 3/8
1 1/2 x 1 1/4 x 1 1/2	25	.80	2 27/32	1 3/8
2	25	1.42	3 17/32	1 7/8
2 x 2 x 1 1/2	35	1.37	3	1 11/16
2 x 1 1/2 x 2	30	1.33	3 3/16	1 15/16
3	12	3.65	5 7/32	2 27/32
4	—	7.00	6 15/16	3 3/4

DWV TEES

20-495

C x F x F

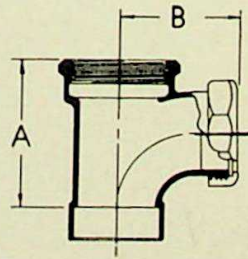
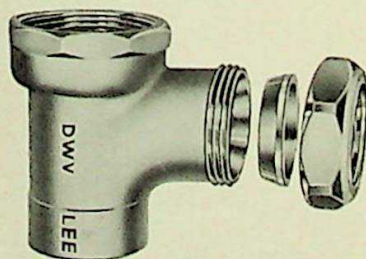


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	60	1.06	2 11/16	1 7/8
1 1/2	45	1.07	2 25/32	2 1/16
2	25	1.69	3 17/32	2 5/8
2 x 2 x 1 1/2	30	1.35	3 1/32	2 5/16
2 x 1 1/2 x 1 1/2	40	1.20	2 27/32	2 5/16

DWV TRAP TEES

20-496

C x F x SJ

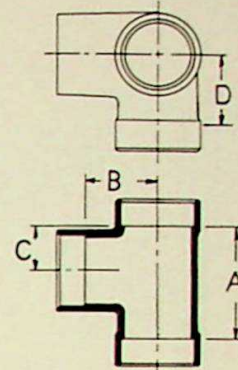


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4 x 1 1/4 x 1 1/4 O.D.	—	.86	2 13/32	2 9/32
1 1/2 x 1 1/2 x 1 1/2 O.D.	—	1.23	2 15/16	2 3/8
1 1/2 x 1 1/2 x 1 1/4 O.D.	—	.98	2 19/32	2 15/32

DWV UTILITY TEES

20-499

C x C x C x C

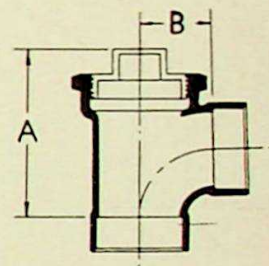


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1 1/2	40	.93	2 3/16	1 3/8	1 3/16	1 3/8

DWV TEES

20-501

C x CLEANOUT w/PLUG x C

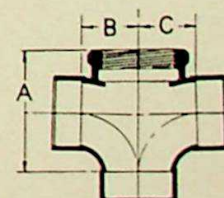


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	—	.90	2 3/32	1 1/8
1 1/2	50	.89	3 13/32	1 3/8
2	25	1.17	4 7/32	1 7/8
3	20	4.13	5 31/32	2 27/32
4	—	8.00	7 3/4	3 3/4

DWV DOUBLE TEES

20-503

C x F x C x C

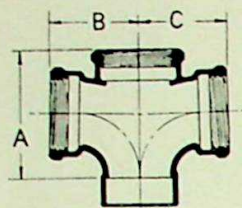


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/2	40	1.10	2 25/32	1 3/8	1 3/8

DWV DOUBLE TEES

20-504

C x F x F x F

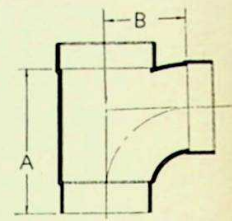
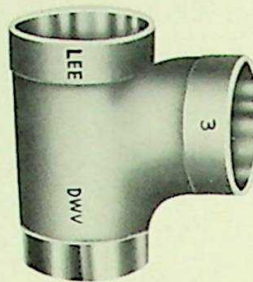


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/2	35	1.30	2 25/32	2 1/16	2 1/16
2	20	2.25	3 17/32	2 5/8	2 5/8
2x2x1 1/2x1 1/2	25	1.75	3 1/32	2 5/16	2 5/16

DWV FITTING TEES

20-512

FTG. x C x C

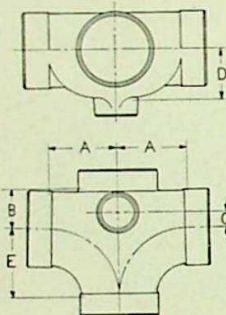


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"
3	15	3.10	5 7/32	2 27/32

DWV DOUBLE TEES WITH ONE 90° SIDE INLET

20-510

C x C x C x C x C

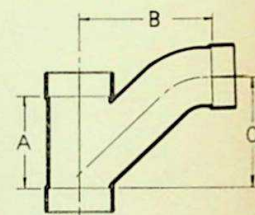
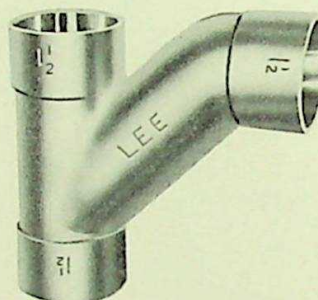


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3x3x3x3x2	8	4.25	2 15/16	1 11/16	1 3/32	2 1/4	2 27/32
3x3x3x3x1 1/2	8	4.00	2 15/16	1 11/16	2 1/32	2 1/4	2 27/32
4x4x4x4x2	4	7.75	3 3/4	2 1/4	1	2 3/4	3 3/4

DWV LONG TURN T-Y'S

20-520

C x C x C

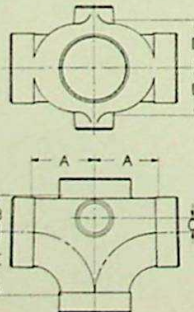


Nominal Size	Carton Master	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/4	65	1.00	2 1/16	2 1/2	2 1/2
1 1/2	40	1.15	2 9/16	2 15/16	2 15/16
1 1/2x1 1/2x1 1/4	50	.94	2 1/16	2 5/8	2 1/2
1 1/2x1 1/4x1 1/4	—	.84	1 15/16	2 21/32	2 1/2
2	15	2.07	3 3/16	4	3 15/16
2 x2 x1 1/2	30	1.50	2 1/2	3 1/4	3
2 x2 x1 1/4	—	—	2 1/8	3	2 5/8
2 x1 1/2x2	20	1.97	3	4	4
2 x1 1/2x1 1/2	30	1.35	2 5/16	3 1/4	3
2 x1 1/4x2	25	—	2 31/32	4	4
3	12	4.42	4 11/16	5 7/8	5 7/8
3 x3 x2	18	2.90	3 7/32	4 1/2	4
3 x3 x1 1/2	20	2.16	2 1/2	3 23/32	3
3 x2 x3	—	4.42	4 1/4	5 7/8	5 7/8
3 x2 x2	40	2.45	2 25/32	4 1/2	4
4	4	11.50	6 1/16	7 3/4	7 3/4
4 x4 x3	7	5.95	4 5/8	6 15/32	5 17/32
4 x4 x2	15	3.75	3 3/8	5	4 1/8

DWV DOUBLE TEES WITH TWO 90° SIDE INLETS

20-511

C x C x C x C x C x C

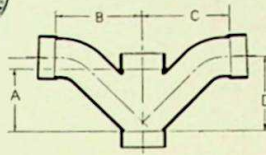
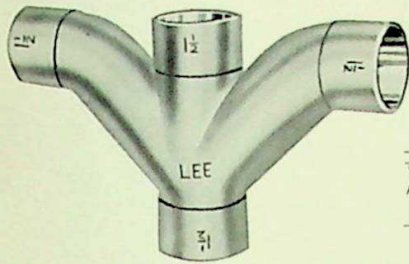


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3x3x3x3x2 x2	4.39	2 15/16	1 11/16	1 3/32	2 1/4	2 27/32
3x3x3x3x1 1/2x1 1/2	4.50	2 15/16	1 11/16	2 1/32	2 1/4	2 27/32
4x4x4x4x2 x2	8.12	3 3/4	2 1/4	1	2 3/4	3 3/4

DWV DOUBLE LONG TURN T-Y'S

20-522

C x C x C x C

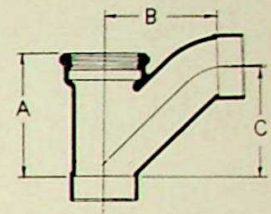


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1 1/4	1.24	2 1/16	2 1/2	2 1/2	2 1/2
1 1/2	1.68	2 1/2	2 1/2	2 1/2	2 15/16
1 1/2 x 1 1/2 x 1 1/4 x 1 1/4	1.56	2 1/16	2 5/8	2 5/8	2 1/2
1 1/2 x 1 1/4 x 1 1/4 x 1 1/4	1.40	1 15/16	2 21/32	2 21/32	2 1/2
2	2.80	3 1/8	3 15/16	3 15/16	3 15/16
2 x 2 x 1 1/2 x 1 1/2	2.00	2 1/2	3 1/4	3 1/4	3
2 x 2 x 1 1/4 x 1 1/4	1.65	2 1/8	3	3	2 5/8
3	6.81	4 11/16	5 7/8	5 7/8	5 7/8
3 x 3 x 2 x 2	3.94	3 1/4	4 19/32	4 19/32	4 1/2
3 x 3 x 1 1/2 x 1 1/2	2.72	2 1/2	3 23/32	3 23/32	3
4	—	6 1/16	7 3/4	7 3/4	7 3/4
4 x 4 x 3 x 3	10.25	4 11/16	5 1/2	5 1/2	5
4 x 4 x 2 x 2	5.09	3 3/8	5	5	4 1/8

DWV LONG TURN T-Y'S

20-525

C x F x C

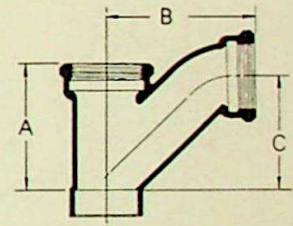
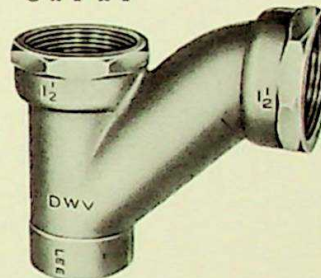


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/2	1.33	3 1/4	3	2 5/8
2	2.10	4	4	3 17/32

DWV LONG TURN T-Y'S

20-529

C x F x F

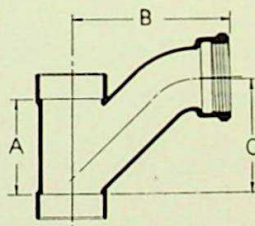
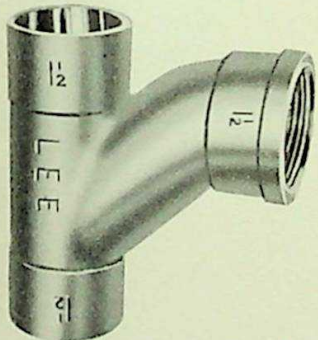


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/2	35	1.51	3 1/4	3 13/16	3
2	15	2.40	4	4 13/16	4
2 x 2 x 1 1/2	25	1.83	3 11/32	4	3

DWV LONG TURN T-Y'S

20-523

C x C x F

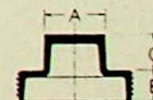


Nominal Size	Master Carton	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/4	50	1.35	2 1/16	3 5/16	2 1/2
1 1/2	35	1.40	2 1/2	3 13/16	3
2	15	2.25	3 3/16	4 13/16	4
2 x 1 1/2 x 2	20	2.39	3 3/32	4 13/16	4

DWV PLUGS

20-592

CORED HEX HEAD

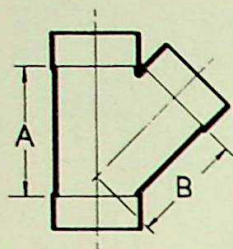


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/4	—	.21	1	1/2	1/2
1 1/2	200	.26	1	5/8	1/2
2	—	.45	1 1/8	17/32	9/16
3	—	1.04	1 3/8	5/8	1 1/16

DWV 45° Y'S

20-840

C x C x C

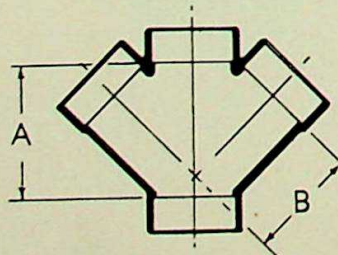


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	100	.62	2 3/16	1 7/8
1 1/2	60	.77	2 1/2	2 1/8
1 1/2 x 1 1/2 x 1 1/4	75	.73	2 3/16	2 1/16
1 1/2 x 1 1/4 x 1 1/2	65	.70	2 9/16	2 1/16
1 1/2 x 1 1/4 x 1 1/4	75	.65	2 3/32	1 7/8
2	25	1.40	3 5/32	2 11/16
2 x 2 x 1 1/2	40	1.05	2 9/16	2 1/2
2 x 2 x 1 1/4	45	.95	2 7/32	2 13/32
2 x 1 1/2 x 2	35	1.18	3 5/32	2 17/32
2 x 1 1/2 x 1 1/2	50	1.08	2 3/8	2 3/16
3	15	3.13	4 23/32	4 1/32
3 x 3 x 2	20	2.10	3 1/2	3 1/2
3 x 3 x 1 1/2	25	1.80	2 19/32	3 1/4
3 x 3 x 1 1/4	30	1.70	2 1/2	3 1/16
3 x 2 x 2	—	1.65	2 27/32	2 3/4
3 x 2 x 1 1/2	—	1.50	2 1/16	2 9/16
3 x 1 1/2 x 1 1/2	25	1.21	1 27/32	2 3/16
4	6	7.00	6 7/16	5 3/8
4 x 4 x 3	10	4.60	4 11/16	4 21/32
4 x 4 x 2	10	3.60	3 17/32	4 3/16
4 x 4 x 1 1/2	15	2.87	2 7/16	3 13/16
4 x 4 x 1 1/4	25	2.88	2 9/32	3 11/16
5	—	13.70	7 11/16	6 1/2
5 x 5 x 4	—	—	6 5/16	6
6	—	18.31	9 3/16	7 11/16

DWV 45° DOUBLE Y'S

20-845

C x C x C x C



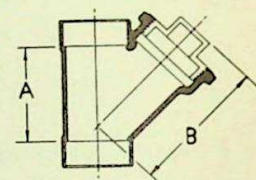
20-845 (CONTINUED)

Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	65	1.27	2 3/16	1 7/8
1 1/2	40	1.20	2 9/16	2 3/16
1 1/2 x 1 1/2 x 1 1/4 x 1 1/4	50	.80	2 3/16	2
2	20	1.78	3 5/16	2 3/4
2 x 2 x 1 1/2 x 1 1/2	30	1.45	2 9/16	2 9/16
2 x 2 x 1 1/4 x 1 1/4	—	1.10	2 5/16	2 3/8
2 x 1 1/2 x 1 1/2 x 1 1/2	35	1.20	2 3/8	2 3/16
3	10	4.25	4 15/16	4 1/8
3 x 3 x 2 x 2	15	2.80	3 1/4	3 7/16
3 x 3 x 1 1/2 x 1 1/2	25	2.16	2 23/32	3 1/4
4	—	—	6 3/16	5 1/4
4 x 4 x 3 x 3	10	5.43	4 23/32	4 5/8
4 x 4 x 2 x 2	10	3.50	3 9/32	4 1/16

DWV 45° Y'S WITH CLEANOUT

20-850

C x C x CLEANOUT w/PLUG

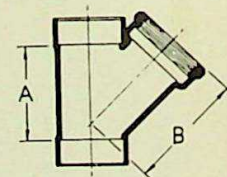


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	—	1.07	2 1/8	3 1/4
1 1/2	50	1.15	2 1/2	3 11/16
2	25	2.00	3 5/32	4 3/8
3	20	4.48	4 9/16	6 5/32

DWV 45° Y'S

20-851

C x C x F

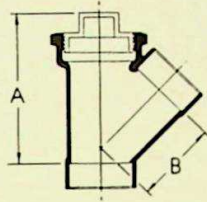


Nominal Size	Mast Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	75	.88	2 1/8	2 11/16
1 1/2	50	1.00	2 1/2	3 1/16
2	25	1.65	3 5/32	3 11/16
2 x 2 x 1 1/2	30	1.30	2 1/2	3 13/32
3	20	4.00	4 9/16	5 13/32

DWV 45° Y'S WITH CLEANOUT

20-853

C x CLEANOUT w/PLUG x C

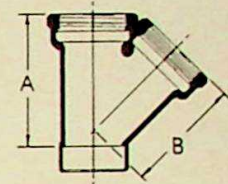


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	90	1.07	3 1/16	1 13/16
1 1/2	50	1.30	4 1/16	2 1/8
2	25	2.10	4 27/32	2 11/16
3	20	4.98	7 1/32	4 1/32
4 (Bushed from 20-840)	10	6.86	8 1/16	5 3/8

DWV 45° Y'S

20-856

C x F x F

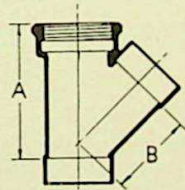


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	60	.88	3	2 1/16
1 1/2	40	1.20	3 7/16	3 1/16
2	20	1.93	4 5/32	3 11/16

DWV 45° Y'S

20-855

C x F x C

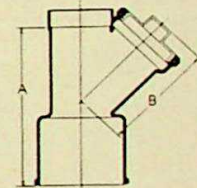
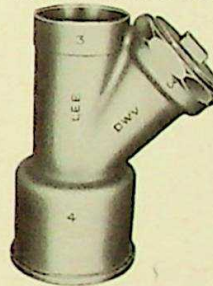


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/4	75	.75	3	1 13/16
1 1/2	50	1.00	3 7/16	2 1/8
2	25	1.75	4 5/32	2 11/16
2 x 2 x 1 1/2	35	1.30	3 1/8	2 5/8
2 x 1 1/2 x 2	25	1.50	4	2 3/4
3	12	4.50	6 9/32	4 1/32

DWV 45° Y'S WITH CLEANOUT

20-858

SPIGOT x C x CLEANOUT w/PLUG

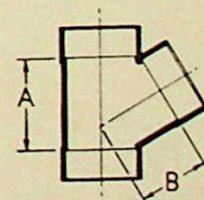


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
4 x 3 x 3	13	6.37	8 1/2	5 7/8

DWV 60° Y'S

20-865

C x C x C

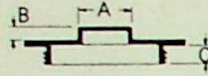


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1 1/2	70	.65	1 31/32	1 15/32
2	30	1.12	2 17/32	1 7/8
2 x 2 x 1 1/2	50	.95	2 1/32	1 25/32

DWV DRUM TRAP COVERS

21-185

3-IN. IRON PIPE SIZE — STRAIGHT THREAD —
CORED HEAD

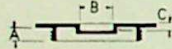


Flange O.D.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
4	—	.88	1 1/4	5/16	1/2
4 1/4	100	.98	1 1/4	5/16	1/2
4 1/2	75	.80	1 1/2	3/8	15/32
4 3/4	75	.99	1 1/2	3/8	1/2
5	50	1.05	1 1/4	3/8	7/16
5 1/4	—	1.10	1 1/4	3/8	7/16
5 3/8	—	1.12	1 1/4	3/8	1/2
5 1/2	—	1.15	1 1/4	3/8	1/2

DWV DRUM TRAP COVERS — COUNTERSUNK

21-186

3-IN. IRON PIPE SIZE — STRAIGHT THREAD

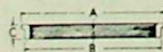


Flange O.D.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
4 1/2	75	.97	1 1/2	3/8	15/32
5	50	1.00	1 1/4	3/8	7/16
5 1/4	—	1.04	1 1/4	3/8	7/16
5 1/2	—	1.07	1 1/4	3/8	1/2

DWV RINGS FOR DRUM TRAP COVERS

21-431

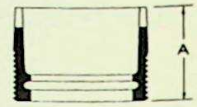
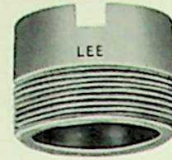
NATIONAL COARSE THREAD
FOR FINE THREAD SPECIFY NO. 21-432.
RECOMMENDED FOR USE WITH LEE COVERS ONLY.



Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3	1.50	.53	4 3/16	4	7/16

DWV FLOOR DRAIN SPUDS

23-214



Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	No. of Wrench Slots
2	125	.55	1 3/4	2
2 1/2	50	.85	2 5/16	4
3	50	1.28	2 3/16	4

DWV FLOOR & SHOWER DRAINS

23-224

INSIDE CAULK WITH STRAINER

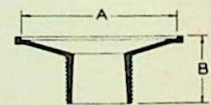
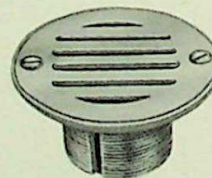


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
2	—	1.17	4 5/32	1 1/2
3	—	2.02	5 5/32	1 3/4

DWV FLOOR & SHOWER DRAINS

23-225

M (WITH STRAINER)
DRAIN HAS SEEPAGE GROOVES TO INSURE
SECONDARY DRAINAGE

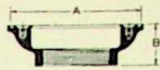


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
2	—	1.40	4 5/32	2 5/16
2	—	1.87	5	2
2	—	3.44	6	2 1/2
2 1/2	—	1.50	4 5/32	2 7/16
3	—	1.85	4 5/32	2 3/16
3 1/2	—	2.75	5	2 3/16
3 1/2	—	3.50	6	2 11/16
3 1/2	—	4.25	8	2 7/8
3 1/2	—	5.50	10	3 3/32

DWV FLOOR & SHOWER DRAINS

23-227

F (WITH STRAINER)

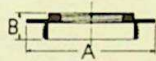


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1½	—	.65	3⅝	1⅝
2	—	.68	3⅝	1⅝

DWV CLAMPING RINGS

23-430

STRAIGHT THREADS — M x F
FOR USE WITH 2 IN. M
FLOOR & SHOWER DRAINS

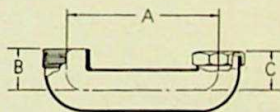
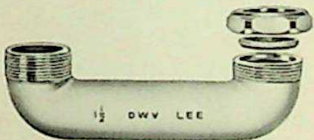


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
3 x 2	75	.68	4⅞	1⅝

DWV TRAP UPTURNS

26-424

M x SJ

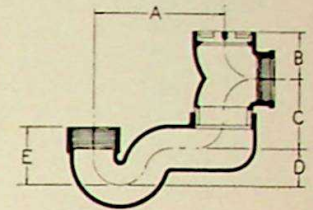


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1½	35	1.76	6	12⅞	1⅝

DWV ROCHESTER BATH P-TRAPS WITH CLEANOUT

24-530

F x F (WITH 2-IN. CLEANOUT PLUG)

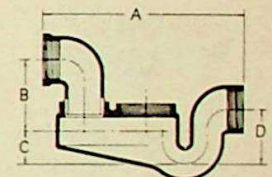
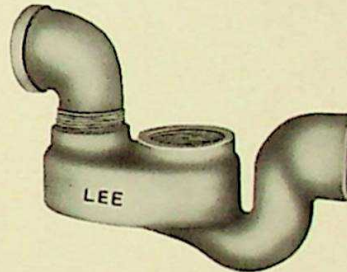


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
1½	14	4.90	5⅝	1⅞	2⅞	1½	2⅞

DWV ROCHESTER RUNNING BATH P-TRAPS WITH CLEANOUT

24-531

F x F (2-IN. CLEANOUT — LESS PLUG)

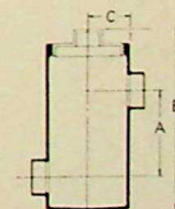


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1½	10	5.48	8⅞	3⅞	1⅞	2⅞

DWV DRUM TRAPS

24-540

C x C x CLEANOUT w/PLUG

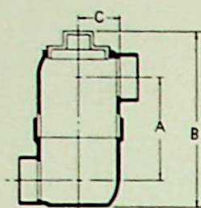
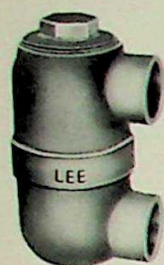


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1½ x 4 x 8	18	6.73	4⅞	8⅞	1⅞

DWV SWIVEL DRUM TRAPS

24-541

C x C x CLEANOUT w/PLUG

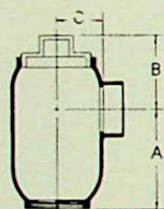


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1½ x 3 x 6	18	2.71	3 ²⁹ / ₃₂	6 ⁵ / ₈	1½
1½ x 4 x 8	12	5.23	4 ²³ / ₃₂	7 ²¹ / ₃₂	1 ³¹ / ₃₂
2 x 3 x 6	18	3.17	3½	6 ²³ / ₃₂	1½
2 x 4 x 8	18	4.98	4 ¹¹ / ₃₂	7 ²⁵ / ₃₂	1 ³¹ / ₃₂

DWV DRUM TRAPS WITH BOTTOM INLET

24-542

C x F x CLEANOUT w/PLUG
F INLET IN BOTTOM, C OUTLET

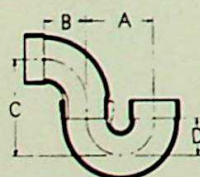


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1¼ x 4 x 5	—	—	2 ¹³ / ₁₆	2 ⁷ / ₈	1 ³¹ / ₃₂
1½ x 3 x 5	25	2.06	3 ⁹ / ₃₂	2 ¹³ / ₃₂	1½
1½ x 4 x 5	25	4.78	2 ¹³ / ₁₆	2 ⁷ / ₈	2 ¹ / ₃₂

DWV P-TRAPS

24-550

C x C

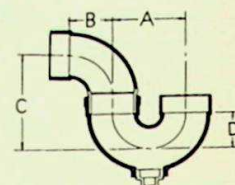


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1¼	50	1.03	2¼	1 ³ / ₁₆	3	1 ¹ / ₈
1½	30	1.58	2½	1 ⁷ / ₁₆	3 ¹⁵ / ₃₂	1 ³ / ₃₂
2	18	2.60	2 ¹⁵ / ₁₆	1 ⁷ / ₈	4 ⁹ / ₃₂	1 ¹⁷ / ₃₂

DWV P-TRAPS WITH CLEANOUT

24-551

C x C x CLEANOUT w/PLUG

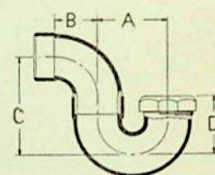
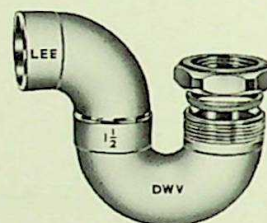


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1¼	50	1.15	2¼	1 ³ / ₁₆	3	1 ¹ / ₈
1½	35	1.70	2½	1 ⁷ / ₁₆	3 ¹⁵ / ₃₂	1 ⁹ / ₃₂
2	18	2.66	3	1 ⁷ / ₈	4 ¹³ / ₃₂	1 ²¹ / ₃₂

DWV P-TRAPS

24-554

C x SJ

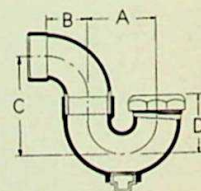


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1¼ x 1¼ O.D.	—	1.17	2¼	1 ³ / ₁₆	3	2 ³ / ₃₂
1½ x 1½ O.D.	30	1.78	2½	1 ⁷ / ₁₆	3 ¹⁵ / ₃₂	2 ⁷ / ₃₂
2 x 2 O.D.	—	2.90	2 ¹⁵ / ₁₆	1 ⁷ / ₈	4 ⁹ / ₃₂	2 ¹⁹ / ₃₂

DWV P-TRAPS WITH CLEANOUT

24-555

C x SJ x CLEANOUT w/PLUG

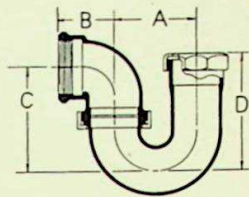
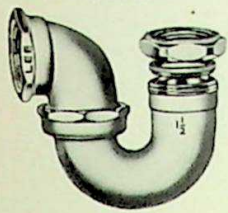


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1¼ x 1¼ O.D.	50	1.32	2¼	1 ³ / ₁₆	3	2 ³ / ₃₂
1½ x 1½ O.D.	35	1.91	2½	1 ⁷ / ₁₆	3 ¹⁵ / ₃₂	2 ⁷ / ₃₂
2 x 2 O.D.	15	2.92	3	1 ⁷ / ₈	4 ¹³ / ₃₂	2 ²³ / ₃₂

DWV P-TRAPS WITH UNION JOINT

24-556

F x SJ
L.A. PATTERN

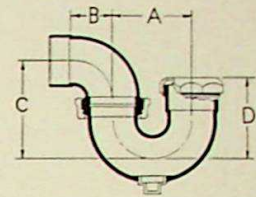
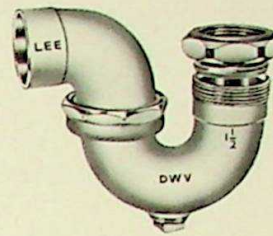


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1½ x 1½ O.D.	25	2.51	2⅝	1¾	3⅞	3⅞

DWV P-TRAPS WITH UNION JOINT & CLEANOUT

24-561

C x SJ x CLEANOUT w/PLUG

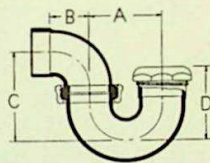
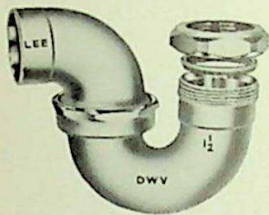


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1½ x 1½ O.D.	30	2.34	2⅝	1⅞	3⅞	2⅜

DWV P-TRAPS WITH UNION JOINT

24-559

C x SJ
L.A. PATTERN

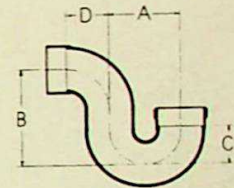
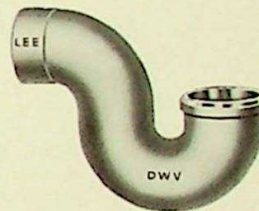


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1½ x 1½ O.D.	30	2.21	2⅝	1⅞	3⅞	3⅞

DWV ONE PIECE P-TRAPS

24-564

C x C

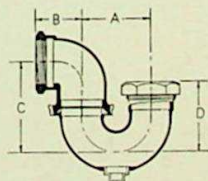
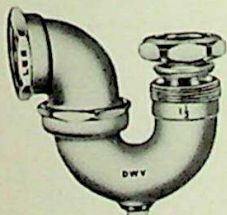


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1½	30	1.35	2½	3⅞	1⅞	1⅞

DWV P-TRAPS WITH UNION JOINT & CLEANOUT

24-560

F x SJ x CLEANOUT w/PLUG

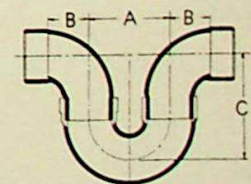
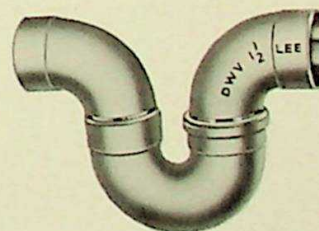


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1½ x 1½ O.D.	30	2.36	2⅝	1¾	3½	2⅜

DWV RUNNING TRAPS

24-571

C x C

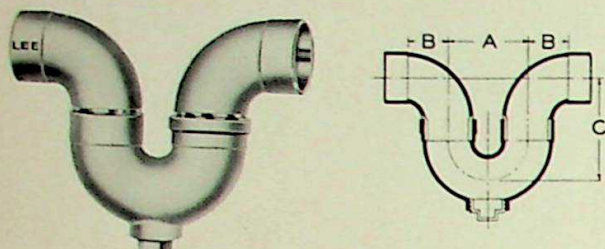


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1¼	—	1.42	2¼	1⅞	3
1½	—	2.12	2½	1⅞	3⅞
2	—	3.55	2⅝	1⅞	4⅞

DWV RUNNING TRAPS WITH CLEANOUT

24-572

C x C x CLEANOUT w/PLUG

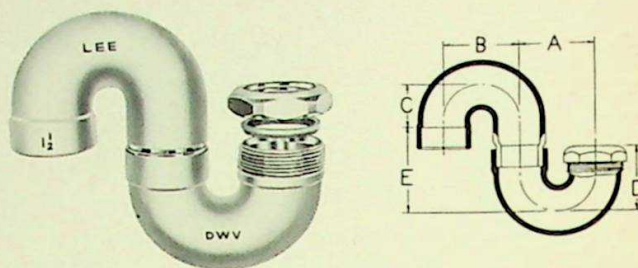


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/4	—	1.55	2 1/4	1 3/16	3
1 1/2	—	2.25	2 1/2	1 7/16	3 15/32
2	—	3.62	2 15/16	1 7/8	4 9/32

DWV S-TRAPS

24-579

C x SJ

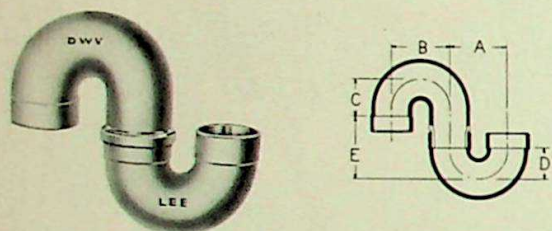


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
1 1/4 x 1 1/4 O.D.	—	—	2 1/4	2	1 3/8	2 3/32	2 3/4
1 1/2 x 1 1/2 O.D.	—	—	2 1/2	2 1/2	1 1/2	2 7/32	2 23/32
2 x 2 O.D.	—	3.40	2 15/16	3	1 21/32	2 19/32	3 3/32

DWV S-TRAPS

24-575

C x C

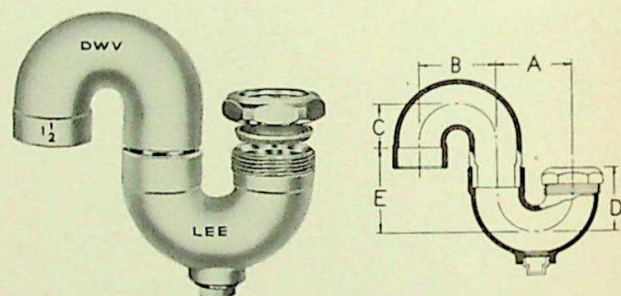


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
1 1/4	—	1.80	2 3/4	2	1 3/8	1 1/8	2 3/4
1 1/2	—	2.12	2 1/2	2 1/2	1 1/2	1 9/32	2 23/32
2	—	3.40	2 15/16	3	1 21/32	1 17/32	3 3/32

DWV S-TRAPS WITH CLEANOUT

24-580

C x SJ x CLEANOUT w/PLUG

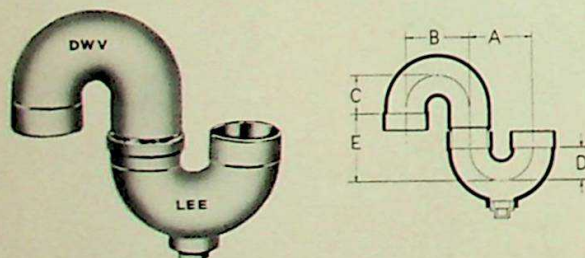


Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
1 1/4 x 1 1/4 O.D.	—	—	2 1/4	2	1 3/8	2 3/32	2 3/4
1 1/2 x 1 1/2 O.D.	—	—	2 1/2	2 1/2	1 1/2	2 7/32	2 23/32
2 x 2 O.D.	—	—	3	3	1 21/32	2 23/32	3 1/32

DWV S-TRAPS WITH CLEANOUT

24-576

C x C x CLEANOUT w/PLUG



Nominal Size	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
1 1/4	—	1.75	2 1/4	2	1 3/8	1 1/8	2 3/4
1 1/2	—	2.10	2 1/2	2 1/2	1 1/2	1 9/32	2 23/32
2	—	3.47	3	3	1 21/32	1 21/32	3 7/32

LEE flared tube fittings, designed for use with annealed copper tubing, are used where mechanically sound, leak-proof joints are desired without the use of gaskets, heat or solder. Because of the precision machined concentric surfaces incorporated in the LEE flared tube fittings, they may be uncoupled and rejoined as often as necessary, forming a perfect seal every time.

Especially adapted for use with appliances, LEE A.G.A. Flared Fittings are listed and approved by the American Gas Association. To insure safety in application, every LEE fitting is carefully inspected and tested with 100 psi air pressure under water.

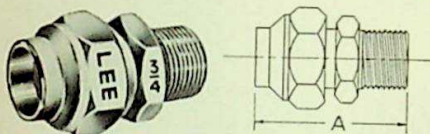
When ordering, please refer to figure numbers.



ADAPTERS

34-101

C x M



Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{3}{8}$	.24	$1\frac{29}{32}$
$\frac{3}{8} \times \frac{1}{2}$	.28	$2\frac{1}{32}$
$\frac{1}{2}$	.31	$2\frac{3}{32}$
$\frac{1}{2} \times \frac{3}{4}$	.36	$2\frac{1}{4}$
$\frac{1}{2} \times \frac{3}{8}$	.26	$1\frac{15}{16}$
$\frac{3}{4}$	.48	$2\frac{17}{32}$
$\frac{3}{4} \times \frac{1}{2}$	.45	$2\frac{17}{32}$
1	.87	$3\frac{3}{16}$
1 x $\frac{3}{4}$	.81	$2\frac{25}{32}$
$1\frac{1}{4}$	1.41	$3\frac{17}{32}$
$1\frac{1}{2}$	1.67	$3\frac{25}{32}$
2	3.27	$4\frac{19}{32}$

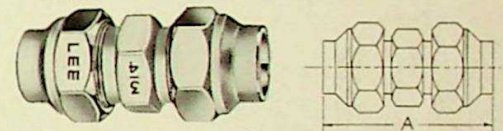
34-105 (CONTINUED)

Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{3}{8}$	.23	$1\frac{21}{32}$
$\frac{3}{8} \times \frac{1}{2}$	.20	$1\frac{25}{32}$
$\frac{1}{2}$	.29	$1\frac{7}{8}$
$\frac{1}{2} \times \frac{3}{4}$	.36	2
$\frac{1}{2} \times \frac{3}{8}$	.25	$1\frac{25}{32}$
$\frac{3}{4}$	.48	$2\frac{5}{32}$
$\frac{3}{4} \times \frac{1}{2}$	.41	$2\frac{1}{8}$
1	.91	$2\frac{17}{32}$
1 x $\frac{3}{4}$	.63	$2\frac{1}{8}$
$1\frac{1}{4}$	1.16	$2\frac{3}{4}$
$1\frac{1}{2}$	1.47	$2\frac{15}{16}$
2	2.69	$3\frac{21}{32}$

COUPLINGS

34-165

C x C

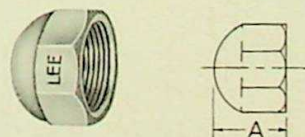


Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{3}{8}$	.34	$2\frac{9}{16}$
$\frac{1}{2}$	.50	$2\frac{13}{16}$
$\frac{3}{4}$	.78	$3\frac{3}{8}$
1	1.16	4
$1\frac{1}{4}$	1.91	$4\frac{17}{32}$
$1\frac{1}{2}$	2.48	$4\frac{27}{32}$
2	4.70	$6\frac{11}{32}$

FITTING CAPS

34-154

USED TO CLOSE OPENINGS ON FLARED FITTINGS

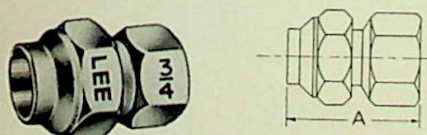


Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{1}{2}$	.14	$1\frac{5}{16}$
$\frac{3}{4}$	.22	$1\frac{13}{32}$
1	.39	$1\frac{15}{32}$
$1\frac{1}{4}$	.52	$1\frac{3}{8}$
$1\frac{1}{2}$	.66	$1\frac{9}{16}$
2	—	$2\frac{13}{32}$

ADAPTERS

34-105

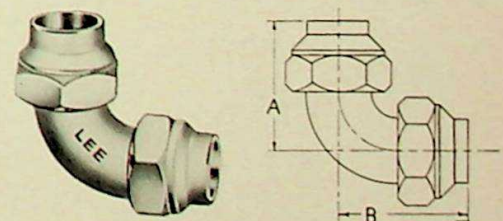
C x F



90° ELBOWS

34-235

C x C

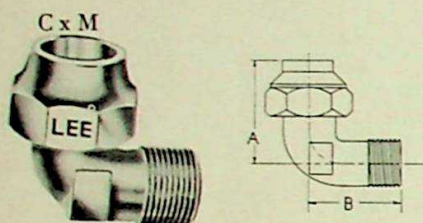


34-235 (CONTINUED)

Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{8}$	.42	$1\frac{11}{16}$	$1\frac{11}{16}$
$\frac{1}{2}$	.50	$1\frac{27}{32}$	$1\frac{27}{32}$
$\frac{3}{4}$	.78	$2\frac{1}{4}$	$2\frac{1}{4}$
1	1.37	$2\frac{5}{8}$	$2\frac{5}{8}$
$1\frac{1}{4}$	1.90	$2\frac{27}{32}$	$2\frac{27}{32}$
$1\frac{1}{2}$	2.60	$3\frac{3}{16}$	$3\frac{3}{16}$
2	5.37	$4\frac{3}{16}$	$4\frac{3}{16}$

90° ELBOWS

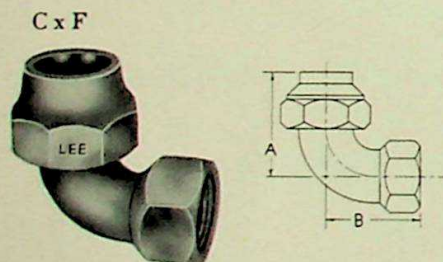
34-255



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{8}$	.27	$1\frac{11}{16}$	$1\frac{1}{4}$
$\frac{1}{2}$	.36	$1\frac{27}{32}$	$1\frac{1}{2}$
$\frac{3}{4}$	.54	$2\frac{1}{4}$	$1\frac{5}{8}$
1	.96	$2\frac{5}{8}$	2
$1\frac{1}{4}$	1.36	$2\frac{27}{32}$	$2\frac{1}{4}$
$1\frac{1}{2}$	1.92	$3\frac{3}{16}$	$2\frac{9}{32}$

90° ELBOWS

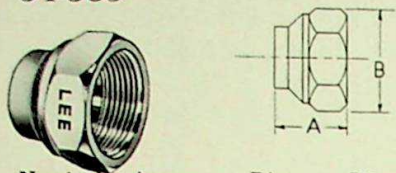
34-257



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{8}$	.26	$1\frac{11}{16}$	$1\frac{1}{4}$
$\frac{1}{2}$	.38	$1\frac{27}{32}$	$1\frac{1}{2}$
$\frac{3}{4}$	.59	$2\frac{1}{4}$	$1\frac{5}{8}$
1	1.06	$2\frac{5}{8}$	2
1 x $\frac{3}{4}$	.91	$2\frac{9}{32}$	$1\frac{3}{4}$
$1\frac{1}{4}$	1.46	$2\frac{27}{32}$	$2\frac{1}{4}$
$1\frac{1}{4}$ x 1	1.67	$2\frac{11}{16}$	2
$1\frac{1}{2}$	2.02	$3\frac{3}{16}$	$2\frac{9}{32}$

TUBE NUTS

34-385

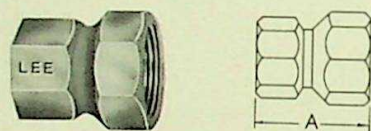


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{8}$	.11	$\frac{7}{8}$	$1\frac{1}{4}$
$\frac{1}{2}$	.13	$1\frac{5}{16}$	$1\frac{15}{32}$
$\frac{3}{4}$	.19	$1\frac{5}{32}$	$1\frac{23}{32}$
1	.28	$1\frac{5}{16}$	$2\frac{1}{16}$
$1\frac{1}{4}$	.46	$1\frac{9}{16}$	$2\frac{11}{32}$
$1\frac{1}{2}$	.67	$1\frac{25}{32}$	$2\frac{3}{4}$
2	1.41	$2\frac{3}{16}$	$3\frac{7}{16}$

TUBE NUTS

34-387

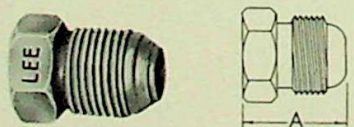
NUT SEAT x F



Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{1}{2}$	.15	$1\frac{19}{32}$
$\frac{3}{4}$	.22	$1\frac{23}{32}$
1	.66	$2\frac{1}{16}$
$1\frac{1}{4}$	1.10	$2\frac{7}{32}$
$1\frac{1}{2}$	1.35	$2\frac{13}{32}$
2	1.55	$2\frac{21}{32}$

TUBE END PLUGS

34-396

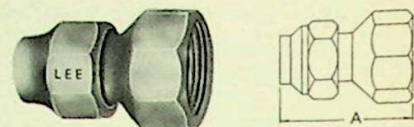


Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{3}{8}$	.10	$1\frac{1}{16}$
$\frac{1}{2}$	.19	$1\frac{1}{2}$

FITTING REDUCERS

34-410

NUT SEAT x C

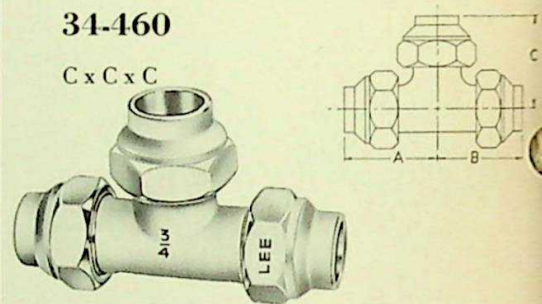


Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{3}{4}$ x $\frac{1}{2}$	.40	$2\frac{3}{16}$
1 x $\frac{3}{4}$	.62	$2\frac{5}{8}$
1 x $\frac{1}{2}$	.55	$2\frac{1}{2}$
$1\frac{1}{4}$ x 1	.89	$2\frac{13}{16}$
$1\frac{1}{4}$ x $\frac{3}{4}$	.97	$2\frac{27}{32}$
$1\frac{1}{2}$ x $1\frac{1}{4}$	1.44	$3\frac{3}{32}$
$1\frac{1}{2}$ x 1	1.10	$3\frac{3}{32}$
2 x $1\frac{1}{2}$	2.25	$3\frac{17}{32}$
2 x $1\frac{1}{4}$	2.43	$4\frac{1}{8}$

TEES

34-460

C x C x C

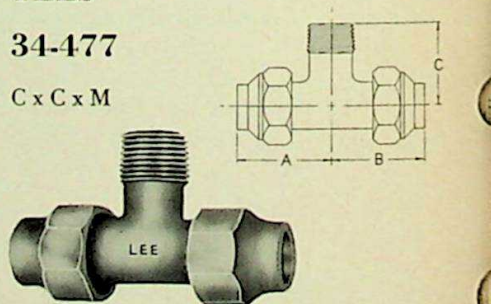


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
$\frac{3}{8}$	.61	$1\frac{11}{16}$	$1\frac{11}{16}$	$1\frac{11}{16}$
$\frac{1}{2}$	.72	$1\frac{27}{32}$	$1\frac{27}{32}$	$1\frac{27}{32}$
$\frac{3}{4}$	1.26	$2\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{1}{4}$
1	2.03	$2\frac{5}{8}$	$2\frac{5}{8}$	$2\frac{5}{8}$
$1\frac{1}{4}$	2.88	$2\frac{27}{32}$	$2\frac{27}{32}$	$2\frac{27}{32}$
$1\frac{1}{2}$	4.00	$3\frac{3}{16}$	$3\frac{3}{16}$	$3\frac{3}{16}$
2	7.68	$4\frac{3}{16}$	$4\frac{3}{16}$	$4\frac{3}{16}$

TEES

34-477

C x C x M

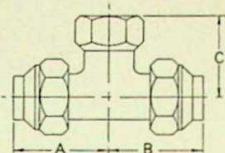
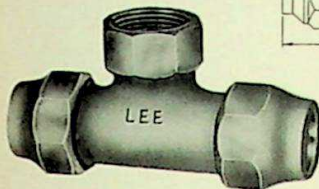


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
$\frac{1}{2}$	.56	$1\frac{21}{32}$	$1\frac{21}{32}$	$1\frac{1}{2}$

TEES

34-480

C x C x F

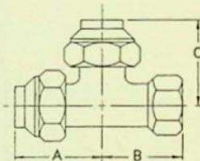
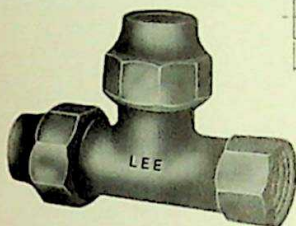


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	.59	1 27/32	1 27/32	1 1/2
3/4	.61	2 1/4	2 1/4	1 5/8
1	1.72	2 5/8	2 5/8	2

TEES

34-492

C x F x C

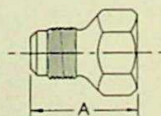


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	.64	1 27/32	1 1/2	1 27/32

ADAPTERS

35-105

COPPER S.A.E. x F MADE TO A.G.A. SPECIFICATIONS; S.A.E. O.D. TUBING 1/8 IN. LARGER THAN NOMINAL SIZE

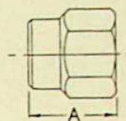


O.D. Tube Size to F.S.P.S.	Approx. Net Wt.	Dim. "A"
1/2	.16	1 13/32
1/2 x 3/4	.23	1 9/16
5/8 x 1/2	.15	1 17/32
5/8 x 3/4	.18	1 11/16

ADAPTERS

35-112

INVERTED COPPER S.A.E. x F MADE TO A.G.A. SPECIFICATIONS; S.A.E. O.D. TUBING 1/8 IN. LARGER THAN NOMINAL SIZE

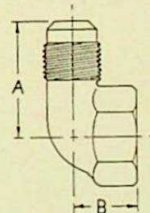


O.D. Tube Size to F.S.P.S.	Approx. Net Wt.	Dim. "A"
5/8 x 3/4	.20	1 5/16

90° ELBOWS

35-257

COPPER S.A.E. x F MADE TO A.G.A. SPECIFICATIONS; S.A.E. O.D. TUBING 1/8 IN. LARGER THAN NOMINAL SIZE — WITHOUT NUT

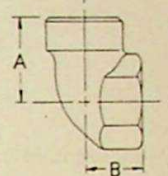


O.D. Tube Size to F.S.P.S.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2 x 1/2	.20	1 7/16	—
5/8 x 3/4	.23	1 11/16	3 1/32
5/8 x 1/2	.21	1 7/16	2 9/32

90° ELBOWS

35-265

INVERTED COPPER S.A.E. x F MADE TO A.G.A. SPECIFICATIONS; S.A.E. O.D. TUBING 1/8 IN. LARGER THAN NOMINAL SIZE



O.D. Tube Size to F.S.P.S.	Approx. Net Wt.	Dim. "A"	Dim. "B"
5/8 x 3/4	.21	1 7/32	1 3/16

TUBE NUTS

35-385

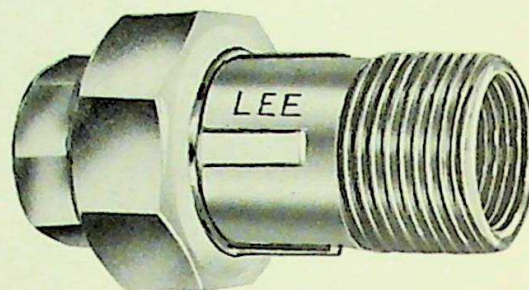
S.A.E. MADE TO A.G.A. SPECIFICATIONS; S.A.E. O.D. TUBING 1/8 IN. LARGER THAN NOMINAL SIZE

Tube O.D.	Approx. Net Wt.
5/8	.13

LEE bronze screwed fittings are manufactured from smooth-cored castings, designed to provide full flow with minimum restriction. All threads are accurately machined and gaged to insure a perfect fit with the pipe.

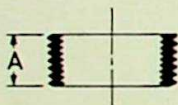
LEE standard bronze screwed fittings meet specifications A.S.A. B-16.15, MIL-F-1184 and Fed. WW-P-460A for 125-pound screwed fittings. Each fitting is individually air-tested under water before shipping.

When ordering, please refer to figure numbers.



FACE BUSHINGS

60-140



Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{1}{4} \times \frac{1}{8}$	.01	$\frac{7}{16}$
$\frac{3}{8} \times \frac{1}{4}$	.02	$\frac{1}{2}$
$\frac{3}{8} \times \frac{1}{8}$	.03	$\frac{1}{2}$
$\frac{1}{2} \times \frac{3}{8}$	.02	$\frac{9}{16}$
$\frac{1}{2} \times \frac{1}{4}$	.04	$\frac{9}{16}$
$\frac{1}{2} \times \frac{1}{8}$	.05	$\frac{9}{16}$
$\frac{3}{4} \times \frac{1}{2}$	.04	$\frac{5}{8}$
$\frac{3}{4} \times \frac{3}{8}$	.07	$\frac{5}{8}$
$\frac{3}{4} \times \frac{1}{4}$	.09	$\frac{5}{8}$
$\frac{3}{4} \times \frac{1}{8}$	.10	$\frac{5}{8}$
1 x $\frac{3}{4}$	.07	$\frac{3}{4}$
1 x $\frac{1}{2}$	.12	$\frac{3}{4}$
1 x $\frac{3}{8}$	.14	$\frac{3}{4}$
1 x $\frac{1}{4}$	.16	$\frac{3}{4}$
$1\frac{1}{4} \times 1$	.12	$\frac{13}{16}$
$1\frac{1}{4} \times \frac{3}{4}$	.19	$\frac{13}{16}$
$1\frac{1}{4} \times \frac{1}{2}$	.23	$\frac{13}{16}$
$1\frac{1}{4} \times \frac{3}{8}$	.24	$\frac{13}{16}$
$1\frac{1}{2} \times 1\frac{1}{4}$	.14	$\frac{27}{32}$

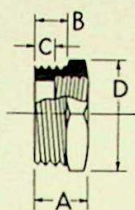
60-140 (CONTINUED)

Nominal Size	Approx. Net Wt.	Dim. "A"
$1\frac{1}{2} \times 1$	.27	$\frac{27}{32}$
$1\frac{1}{2} \times \frac{3}{4}$	.34	$\frac{27}{32}$
$1\frac{1}{2} \times \frac{1}{2}$	.31	$\frac{27}{32}$
$1\frac{1}{2} \times \frac{3}{8}$	.34	$\frac{27}{32}$
$1\frac{1}{2} \times \frac{1}{4}$	.16	$\frac{27}{32}$
2 x $1\frac{1}{2}$	.35	$\frac{7}{8}$
2 x $1\frac{1}{4}$	.48	$\frac{7}{8}$
2 x 1	.48	$\frac{7}{8}$
2 x $\frac{3}{4}$	.69	$\frac{7}{8}$
2 x $\frac{1}{2}$	.61	$\frac{7}{8}$
$2\frac{1}{2} \times 2$	.51	$\frac{13}{32}$
$2\frac{1}{2} \times 1\frac{1}{2}$	.82	$\frac{13}{32}$
$2\frac{1}{2} \times 1\frac{1}{4}$	1.00	$\frac{13}{32}$
$2\frac{1}{2} \times 1$	1.12	$\frac{13}{32}$
$2\frac{1}{2} \times \frac{3}{4}$	1.20	$\frac{13}{32}$
$2\frac{1}{2} \times \frac{1}{2}$	1.35	$\frac{13}{32}$
3 x $2\frac{1}{2}$	.72	$1\frac{1}{8}$
3 x 2	1.37	$1\frac{1}{8}$
3 x $1\frac{1}{2}$	1.65	$1\frac{1}{8}$
3 x $1\frac{1}{4}$	1.66	$1\frac{1}{8}$
3 x 1	2.06	$1\frac{1}{8}$
3 x $\frac{1}{2}$	2.12	$1\frac{1}{8}$
$3\frac{1}{2} \times 3$	—	—
4 x 3	2.10	$1\frac{7}{32}$
4 x 2	3.50	$1\frac{7}{32}$

HEX BUSHINGS

60-144

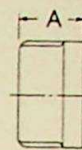
*INSIDE HEX



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1/4 x 1/8	.02	19/32	7/16	5/32	21/32
3/8 x 1/4	.03	21/32	1/2	1/4	11/16
3/8 x 1/8	.05	21/32	1/2	11/32	11/16
1/2 x 3/8	.07	3/4	19/32	11/32	7/8
1/2 x 1/4	.06	3/4	19/32	3/8	7/8
1/2 x 1/8	.07	3/4	19/32	7/16	7/8
3/4 x 1/2	.13	7/8	5/8	11/32	15/32
3/4 x 3/8	.14	7/8	5/8	1/2	15/32
3/4 x 1/4	.16	7/8	5/8	1/2	15/32
1 x 3/4	.20	1	3/4	1/2	17/16
1 x 1/2	.22	1	3/4	19/32	17/16
1 x 3/8*	.20	1 1/16	3/4	11/16	1 1/8
1 x 1/4*	.23	1 1/16	3/4	3/4	1 1/8
1 1/4 x 1	.33	1 3/32	1 3/16	1/2	1 25/32
1 1/4 x 3/4	.39	1 3/32	1 3/16	19/32	1 25/32
1 1/4 x 1/2*	.37	1 5/32	1 3/16	23/32	1 11/32
1 1/4 x 3/8*	.32	1 5/32	1 3/16	25/32	1 1/8
1 1/2 x 1 1/4	.39	1 5/32	1 3/16	7/16	2
1 1/2 x 1	.50	1 5/32	1 3/16	9/16	2
1 1/2 x 3/4*	.44	1 7/32	1 3/16	23/32	1 5/8
1 1/2 x 1/2*	.43	1 7/32	1 3/16	25/32	1 11/32
1 1/2 x 3/8	.45	—	1 3/16	—	—
1 1/2 x 1/4	.45	—	1 3/16	—	—
2 x 1 1/2	.74	1 7/32	7/8	1 7/32	2 1/2
2 x 1 1/4	.85	1 7/32	7/8	9/16	2 1/2
2 x 1*	.82	1 5/16	7/8	23/32	1 31/32
2 x 3/4*	.89	1 5/16	7/8	13/16	1 5/8
2 x 1/2*	.74	1 5/16	7/8	7/8	1 11/32
2 x 1/4	.79	—	—	—	—
2 1/2 x 2	.80	1 7/16	1 3/32	1 1/16	3
2 1/2 x 1 1/2	1.12	1 17/32	1 3/32	1 3/16	2 11/16
2 1/2 x 1 1/4*	1.04	1 17/32	1 3/32	27/32	2 13/32
2 1/2 x 1*	1.06	1 17/32	1 3/32	15/16	1 31/32
3 x 2 1/2	1.84	1 17/32	1 1/8	5/8	3 7/8
3 x 2	1.70	1 5/8	1 1/8	7/8	3 9/32
3 x 1 1/2*	1.60	1 5/8	1 1/8	29/32	2 11/16
3 x 1 1/4*	1.63	1 5/8	1 1/8	7/8	2 13/32
3 x 1	1.75	1 5/8	1 1/8	7/8	1 31/32
3 1/2 x 3	1.66	—	—	—	—
3 1/2 x 2 1/2	3.00	—	—	—	—
4 x 3 1/2	2.40	—	—	—	—
4 x 3	2.93	1 23/32	1 7/32	3/4	4 5/8
4 x 2 1/2*	3.00	1 27/32	1 7/32	29/32	3 7/8
4 x 2*	2.80	1 27/32	1 7/32	1 3/32	3 9/32
4 x 1 1/2*	2.50	1 27/32	1 7/32	1 1/8	2 11/16
4 x 1 1/4	2.77	—	1 7/32	—	—
6 x 4	9.85	—	—	—	—

CAPS

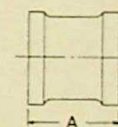
60-155



Nominal Size	Approx. Net Wt.	Dim. "A"
1/8	.04	17/32
1/4	.05	19/32
3/8	.09	21/32
1/2	.13	25/32
3/4	.19	27/32
1	.32	1
1 1/4	.50	1 1/8
1 1/2	.63	1 5/32
2	1.12	1 11/32
2 1/2	1.78	1 23/32
3	2.89	1 13/16
3 1/2	3.99	—
4	5.50	2 3/32
5	8.30	—
6	13.30	—

COUPLINGS

60-165



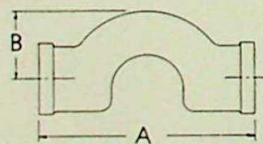
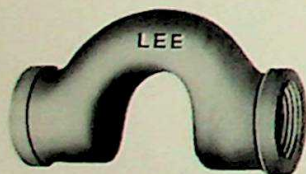
Nominal Size	Approx. Net Wt.	Dim. "A"
1/8	.05	13/16
1/4	.09	31/32
1/4 x 1/8	.06	7/8
3/8	.12	1 1/16
3/8 x 1/4	.10	1
1/2	.18	1 5/16
1/2 x 3/8	.16	1 3/16
1/2 x 1/4	.16	1 1/8
3/4	.29	1 7/16
3/4 x 1/2	.23	1 3/8
3/4 x 3/8	.20	1 1/4
3/4 x 1/4	.21	1 1/4
1	.44	1 11/16
1 x 3/4	.36	1 9/16
1 x 1/2	.32	1 1/2
1 x 3/8	.34	—
1 1/4	.61	1 7/8
1 1/4 x 1	.55	1 25/32
1 1/4 x 3/4	.52	1 21/32

60-165 (CONTINUED)

Nominal Size	Approx. Net Wt.	Dim. "A"
1 1/4 x 1/2	.50	1 13/16
1 1/4 x 1/4	.40	—
1 1/2	.78	1 15/16
1 1/2 x 1 1/4	.70	1 29/32
1 1/2 x 1	.67	1 13/16
1 1/2 x 3/4	.60	1 13/16
1 1/2 x 1/2	.63	—
2	1.23	2 7/32
2 x 1 1/2	1.05	2 1/16
2 x 1 1/4	1.12	2 1/32
2 x 1	1.10	2 1/32
2 x 3/4	.88	—
2 1/2	2.44	2 7/8
2 1/2 x 2	2.50	3 1/4
2 1/2 x 1 1/2	2.13	—
2 1/2 x 1 1/4	2.06	—
2 1/2 x 1	1.30	—
3	3.40	3
3 x 2 1/2	3.35	3 11/16
3 x 2	2.80	3 11/16
3 x 1	2.10	—
3 1/2	4.75	—
3 1/2 x 3	5.80	—
3 1/2 x 1 1/4	3.55	—
4	5.40	3 11/16
4 x 3 1/2	5.25	—
4 x 3	6.30	4 3/8
4 x 2 1/2	7.10	—
4 x 2	4.20	—
4 x 1	4.00	—
5	11.00	—
5 x 4	7.55	4 1/2
6	15.50	4 3/4
6 x 4	—	4 3/4
8	26.50	—

CROSSOVER COUPLINGS

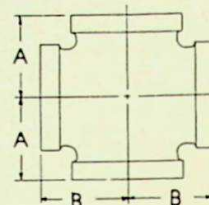
60-167



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	.50	3 3/8	1 3/16
3/4	.66	3 5/8	1 7/16

CROSSES

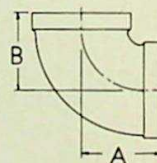
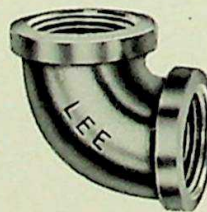
60-195



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/8	.10	9/16	9/16
1/4	.17	23/32	23/32
3/8	.24	27/32	27/32
1/2	.36	1 1/32	1 1/32
3/4	.53	1 3/16	1 3/16
3/4 x 3/4 x 1/2 x 1/2	.47	1 3/32	1 1/8
1	.90	1 7/16	1 7/16
1 x 1 x 1/2 x 1/2	.70	1 7/32	1 1/4
1 1/4	1.45	1 11/16	1 11/16
1 1/4 x 1 1/4 x 1 x 1	1.05	1 17/32	1 5/8
1 1/4 x 1 1/4 x 3/4 x 3/4	.87	1 13/32	1 1/2
1 1/4 x 1 1/4 x 1/2 x 1/2	.70	—	—
1 1/2	1.66	1 27/32	1 27/32
1 1/2 x 1 1/2 x 1 x 1	1.39	1 9/16	1 23/32
1 1/2 x 1 1/2 x 3/4 x 3/4	1.37	—	—
1 1/2 x 1 1/2 x 1/2 x 1/2	1.19	—	—
2 1/2	2.97	2 1/8	2 1/8
2 x 2 x 1 x 1	1.67	—	—
2 1/2	.51	2 23/32	2 23/32
3	.84	3 3/32	3 3/32
3 1/2	10.48	—	—
4	13.85	3 13/16	3 13/16

90° ELBOWS

60-235



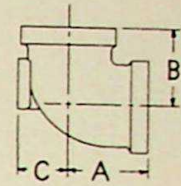
Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/8	.06	17/32	17/32
1/4	.09	23/32	23/32
1/4 x 1/8	.08	5/8	2 1/32
3/8	.14	27/32	27/32
3/8 x 1/4	.11	25/32	23/32
1/2	.20	1	1
1/2 x 3/8	.19	29/32	15/16

60-235 (CONTINUED)

Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{1}{2} \times \frac{1}{4}$	.17	$1\frac{25}{32}$	$1\frac{11}{16}$
$\frac{3}{4}$	.36	$1\frac{5}{32}$	$1\frac{5}{32}$
$\frac{3}{4} \times \frac{1}{2}$	.28	$1\frac{1}{8}$	$1\frac{3}{32}$
$\frac{3}{4} \times \frac{3}{8}$	.27	$1\frac{31}{32}$	$1\frac{31}{32}$
$\frac{3}{4} \times \frac{1}{4}$	.23	1	1
1	.55	$1\frac{3}{8}$	$1\frac{3}{8}$
1 x $\frac{3}{4}$	.52	$1\frac{5}{16}$	$1\frac{5}{16}$
1 x $\frac{1}{2}$	.45	$1\frac{1}{4}$	$1\frac{7}{32}$
1 x $\frac{3}{8}$	.40	$1\frac{3}{16}$	$1\frac{1}{4}$
1 x $\frac{1}{4}$	.39	$1\frac{31}{32}$	$1\frac{3}{8}$
$1\frac{1}{4}$	.92	$1\frac{5}{8}$	$1\frac{5}{8}$
$1\frac{1}{4} \times 1$	.85	$1\frac{5}{8}$	$1\frac{17}{32}$
$1\frac{1}{4} \times \frac{3}{4}$	.68	$1\frac{1}{2}$	$1\frac{13}{32}$
$1\frac{1}{4} \times \frac{1}{2}$	.63	$1\frac{1}{4}$	$1\frac{3}{8}$
$1\frac{1}{2}$	1.23	$1\frac{27}{32}$	$1\frac{27}{32}$
$1\frac{1}{2} \times 1\frac{1}{4}$	1.07	$1\frac{13}{16}$	$1\frac{23}{32}$
$1\frac{1}{2} \times 1$	.92	$1\frac{23}{32}$	$1\frac{9}{16}$
$1\frac{1}{2} \times \frac{3}{4}$	.83	$1\frac{1}{2}$	$1\frac{3}{4}$
2	1.85	$2\frac{1}{16}$	$2\frac{1}{16}$
2 x $1\frac{1}{2}$	1.63	$2\frac{1}{32}$	$1\frac{23}{32}$
2 x $1\frac{1}{4}$	1.52	$1\frac{3}{4}$	$2\frac{1}{16}$
2 x 1	1.46	$1\frac{9}{16}$	$1\frac{15}{16}$
$2\frac{1}{2}$	3.30	$2\frac{23}{32}$	$2\frac{23}{32}$
$2\frac{1}{2} \times 2$	3.11	$2\frac{5}{8}$	$2\frac{13}{32}$
$2\frac{1}{2} \times 1\frac{1}{2}$	2.80	$2\frac{3}{16}$	$2\frac{1}{2}$
3	5.08	$3\frac{3}{32}$	$3\frac{3}{32}$
3 x $2\frac{1}{2}$	4.20	3	$2\frac{27}{32}$
3 x 2	3.93	$2\frac{1}{2}$	$2\frac{7}{8}$
$3\frac{1}{2}$	7.00	$3\frac{7}{16}$	$3\frac{7}{16}$
$3\frac{1}{2} \times 3$	6.50	$3\frac{3}{16}$	$3\frac{1}{2}$
4	8.00	$3\frac{13}{16}$	$3\frac{13}{16}$
4 x $3\frac{1}{2}$	7.75	$3\frac{1}{2}$	$3\frac{5}{8}$
4 x 3	7.60	$3\frac{5}{8}$	$3\frac{5}{16}$
4 x $2\frac{1}{2}$	5.60	$3\frac{1}{16}$	$3\frac{1}{2}$
4 x 2	5.40	—	—
$4\frac{1}{2}$	—	$3\frac{15}{16}$	$3\frac{15}{16}$
$4\frac{1}{2} \times 4$	—	4	$4\frac{1}{4}$
$4\frac{1}{2} \times 2\frac{1}{2}$	—	$3\frac{5}{16}$	$3\frac{5}{16}$
$4\frac{1}{2} \times 2$	—	$2\frac{3}{4}$	$3\frac{3}{8}$
5	19.00	$4\frac{1}{2}$	$4\frac{1}{2}$
5 x 4	18.00	$3\frac{27}{32}$	$4\frac{1}{8}$
5 x $3\frac{1}{2}$	17.50	$3\frac{3}{4}$	$4\frac{5}{8}$
5 x 3	16.75	3	$3\frac{1}{4}$
6	24.00	$5\frac{1}{8}$	$5\frac{1}{8}$
6 x 4	23.50	$3\frac{7}{8}$	5
8	45.50	$6\frac{9}{16}$	$6\frac{9}{16}$

90° DROP ELBOWS

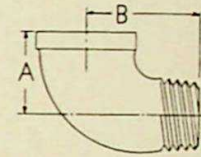
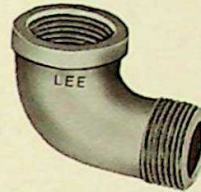
60-240



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
$\frac{1}{4}$	.15	$2\frac{3}{32}$	$2\frac{3}{32}$	$7\frac{1}{16}$
$\frac{3}{8}$	.22	$1\frac{5}{16}$	$1\frac{5}{16}$	$1\frac{17}{32}$
$\frac{1}{2}$	.39	$1\frac{1}{8}$	$1\frac{1}{8}$	$5\frac{5}{8}$
$\frac{3}{4}$	.43	$1\frac{1}{16}$	$1\frac{1}{16}$	$3\frac{3}{4}$

90° STREET ELBOWS

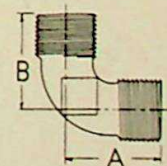
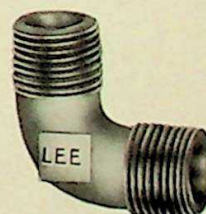
60-254



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{1}{8}$	.05	$9\frac{1}{16}$	$1\frac{5}{16}$
$\frac{1}{4}$	.09	$2\frac{3}{32}$	$1\frac{1}{8}$
$\frac{3}{8}$	.14	$2\frac{7}{32}$	$1\frac{1}{4}$
$\frac{1}{2}$	.21	1	$1\frac{1}{2}$
$\frac{3}{4}$	.36	$1\frac{3}{16}$	$1\frac{21}{32}$
1	.53	$1\frac{7}{16}$	2
$1\frac{1}{4}$	.82	$1\frac{11}{16}$	$2\frac{1}{4}$
$1\frac{1}{2}$	1.06	$1\frac{27}{32}$	$2\frac{15}{32}$
2	1.85	$2\frac{1}{8}$	$2\frac{7}{8}$
$2\frac{1}{2}$	3.18	$2\frac{11}{16}$	$3\frac{7}{16}$
3	5.13	$2\frac{31}{32}$	$3\frac{3}{4}$

90° ELBOWS

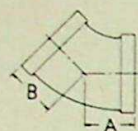
60-267



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{1}{2}$	.18	$1\frac{5}{16}$	$1\frac{5}{16}$

45° ELBOWS

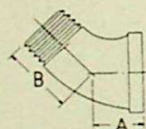
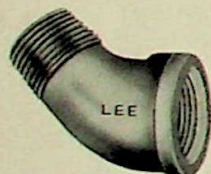
60-290



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/8	.06	7/16	7/16
1/4	.08	9/16	9/16
3/8	.11	5/8	5/8
1/2	.20	23/32	23/32
3/4	.30	7/8	7/8
1	.50	1 1/16	1 1/16
1 1/4	.77	1 7/32	1 7/32
1 1/2	.98	1 5/16	1 5/16
2	1.68	1 15/32	1 15/32
2 1/2	2.80	1 31/32	1 31/32
3	3.84	2 3/16	2 3/16
3 1/2	5.70	2 13/32	2 13/32
4	7.60	2 5/8	2 5/8
5	12.81	3 1/16	3 1/16
6	22.30	3 7/16	3 7/16
8	—	4 9/32	4 9/32

45° STREET ELBOWS

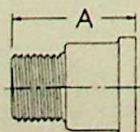
60-295



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/4	.07	9/16	7/8
3/8	.12	5/8	15/16
1/2	.18	23/32	1
3/4	.28	29/32	1 1/4
1	.45	1 1/16	1 13/32
1 1/4	.67	1 7/32	1 21/32
1 1/2	.90	1 5/16	1 13/16
2	1.43	1 15/32	2 5/32

EXTENSION PIECES

60-335

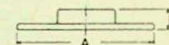
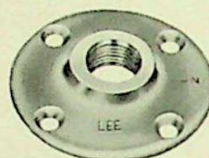


60-335 (CONTINUED)

Nominal Size	Approx. Net. Wt.	Dim. "A"
3/8	.11	1 9/32
1/2	.16	1 9/16
3/4	.26	1 13/16
1 x 1/2	.40	1 13/16
1	.44	2 3/16
1 1/4	.56	2 1/16
1 1/2	.77	2 3/32
2	1.18	2 5/16
2 1/2	2.40	3 3/16
3	2.70	3 3/16

FLOOR FLANGES

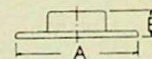
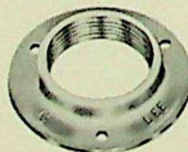
60-355



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/4	.20	2 15/32	3/8
3/8	.22	2 11/16	15/32
1/2	.33	3	1/2
3/4	.40	3 1/4	9/16
1	.87	3 23/32	2 5/32
1 1/4	1.10	4	3/4
1 1/2	1.55	4 7/16	1 5/16
2	2.00	5 3/32	1
2 1/2	3.75	6 19/32	1 1/8
3	4.00	7 1/8	1 1/2

TANK FLANGES

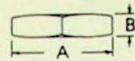
60-358



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/4	.08	1 23/32	1 3/32
3/8	.13	1 15/32	7/16
1/2	.16	2 9/32	1 5/32
3/4	.19	2 5/16	1 7/32
1	.27	2 19/32	9/16
1 1/4	.23	2 25/32	1 9/32
1 1/2	.50	3 3/8	2 5/32
2	.79	4	1 3/16

LOCKNUTS

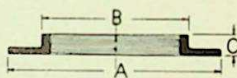
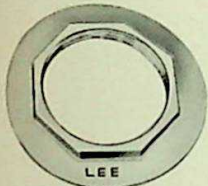
60-375



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/8	.04	7/8	1/4
1/4	.03	7/8	1/4
3/8	.04	1	9/32
1/2	.07	1 1/32	5/16
3/4	.08	1 1/2	9/32
1	.11	1 3/4	11/32
1 1/4	.17	2 3/32	3/8
1 1/2	.28	2 7/16	13/32
2	.40	2 15/16	15/32
2 1/2	1.06	3 1/2	9/16
3	1.10	4 1/4	5/8
4	2.15	5 3/8	13/16
5	3.25	6 1/2	7/8
6	4.70	7 3/4	1 3/8

FLANGE LOCKNUTS

60-376



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
2	.37	3 3/4	2 9/16	3/8

REGULAR PLUGS

60-396



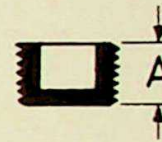
Nominal Size	Approx. Net Wt.	Dim. "A"
1/8	.02	17/32
1/4	.03	1 1/16
3/8	.06	2 3/32
1/2	.10	1 5/16
3/4	.13	1
1	.23	1 3/16

60-396 (CONTINUED)

Nominal Size	Approx. Net Wt.	Dim. "A"
1 1/4	.36	1 9/32
1 1/2	.55	1 3/8
2	.61	1 7/16
2 1/2	1.50	1 27/32
3	2.00	1 15/16
3 1/2	2.55	2 1/16
4	3.60	2 5/32
5	4.75	—
6	8.00	—
8	14.50	—
10	21.50	—

COUNTERSUNK PLUGS

60-397



Nominal Size	Approx. Net Wt.	Dim. "A"
1/4	.02	13/32
3/8	.03	13/32
1/2	.06	9/16
3/4	.10	9/16
1	.21	1 1/16
1 1/4	.33	2 3/32
1 1/2	.50	3/4
2	.78	2 5/32
2 1/2	1.50	1 3/32
3	1.63	1 1/8
3 1/2	1.95	—
4	2.75	1 7/32
5	5.50	—
6	8.80	—
8	13.50	—

SOLID PLUGS

60-399



Nominal Size	Approx. Net Wt.	Dim. "A"
1/8	.02	17/32
1/4	.03	1 1/16
3/8	.06	2 3/32

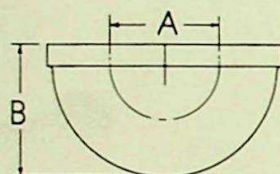
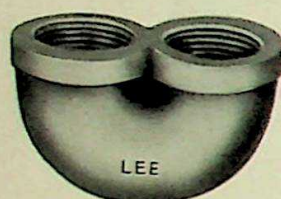
60-399 (CONTINUED)

Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{1}{2}$	.11	$\frac{15}{16}$
$\frac{3}{4}$	.18	1
1	.33	$1\frac{3}{16}$
$1\frac{1}{4}$	.58	$1\frac{9}{32}$
$1\frac{1}{2}$	.82	$1\frac{3}{8}$
2	1.31	$1\frac{15}{32}$
$2\frac{1}{2}$	2.45	$1\frac{27}{32}$
3	3.75	$1\frac{13}{16}$
$3\frac{1}{2}$	5.15	$2\frac{1}{16}$
4	7.25	$2\frac{5}{32}$
5	12.00	—
6	16.00	—
8	30.25	—

RETURN BENDS

60-415

CLOSE PATTERN

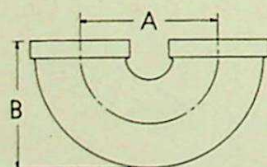
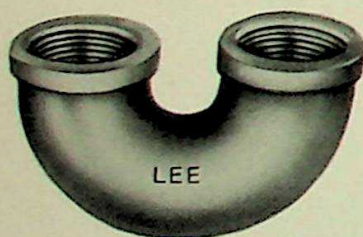


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{4}$	.57	$1\frac{1}{4}$	$1\frac{3}{4}$
1	.84	$1\frac{1}{2}$	$2\frac{1}{8}$

RETURN BENDS

60-418

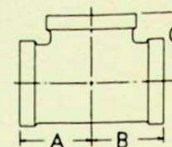
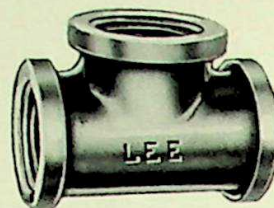
OPEN PATTERN



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{1}{2}$	.36	$1\frac{1}{2}$	$1\frac{1}{16}$
$\frac{3}{4}$	.64	2	$2\frac{1}{8}$
1	1.25	$2\frac{1}{2}$	$2\frac{5}{8}$
$1\frac{1}{4}$	1.54	3	$3\frac{1}{8}$
$2\frac{1}{2}$	5.90	$4\frac{1}{2}$	$4\frac{25}{32}$

TEES

60-460



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
$\frac{1}{8}$	.08	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{9}{16}$
$\frac{1}{4}$	.12	$\frac{23}{32}$	$\frac{23}{32}$	$\frac{23}{32}$
$\frac{1}{4} \times \frac{1}{4} \times \frac{3}{8}$	.25	$\frac{25}{32}$	$\frac{25}{32}$	$\frac{3}{4}$
$\frac{1}{4} \times \frac{1}{4} \times \frac{1}{8}$	.23	$\frac{21}{32}$	$\frac{21}{32}$	$\frac{5}{8}$
$\frac{3}{8}$	.21	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$
$\frac{3}{8} \times \frac{3}{8} \times \frac{1}{2}$	.23	$\frac{29}{32}$	$\frac{29}{32}$	$\frac{15}{16}$
$\frac{3}{8} \times \frac{3}{8} \times \frac{1}{4}$	.17	$\frac{23}{32}$	$\frac{23}{32}$	$\frac{3}{4}$
$\frac{3}{8} \times \frac{1}{4} \times \frac{3}{8}$	.25	$\frac{27}{32}$	$\frac{25}{32}$	$\frac{27}{32}$
$\frac{1}{2}$	.31	1	1	1
$\frac{1}{2} \times \frac{1}{2} \times 1$	.57	—	—	—
$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$	.37	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{3}{32}$
$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$	.27	$\frac{15}{16}$	$\frac{15}{16}$	$\frac{29}{32}$
$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.24	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$
$\frac{1}{2} \times \frac{3}{8} \times \frac{1}{2}$	.28	1	$\frac{29}{32}$	1
$\frac{1}{2} \times \frac{3}{8} \times \frac{3}{8}$	.25	$\frac{15}{16}$	$\frac{27}{32}$	$\frac{29}{32}$
$\frac{1}{2} \times \frac{1}{4} \times \frac{1}{2}$	.25	1	$\frac{27}{32}$	1
$\frac{3}{4}$	.38	$1\frac{5}{32}$	$1\frac{5}{32}$	$1\frac{5}{32}$
$\frac{3}{4} \times \frac{3}{4} \times 1\frac{1}{2}$	1.00	—	—	—
$\frac{3}{4} \times \frac{3}{4} \times 1$	.61	$\frac{15}{16}$	$\frac{15}{16}$	$\frac{15}{16}$
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	.42	$\frac{13}{32}$	$\frac{13}{32}$	$1\frac{1}{8}$
$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{8}$	.40	1	1	1
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{4}$	.38	1	1	1
$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{4}$	.47	$\frac{13}{16}$	$1\frac{1}{8}$	$\frac{13}{16}$
$\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$	.39	$\frac{13}{32}$	1	$1\frac{1}{8}$
$\frac{3}{4} \times \frac{3}{8} \times \frac{1}{2}$	.33	$\frac{13}{16}$	1	$1\frac{1}{32}$
$\frac{3}{4} \times \frac{3}{8} \times \frac{3}{8}$	.32	1	1	1
1	.80	$1\frac{13}{32}$	$1\frac{13}{32}$	$1\frac{13}{32}$
1 x 1 x $1\frac{1}{2}$	1.08	$\frac{123}{32}$	$\frac{123}{32}$	$\frac{19}{16}$
1 x 1 x $1\frac{1}{4}$	.94	$\frac{15}{8}$	$\frac{15}{8}$	$1\frac{17}{32}$
1 x 1 x $\frac{3}{4}$	.70	$\frac{15}{16}$	$\frac{15}{16}$	$\frac{15}{16}$
1 x 1 x $\frac{1}{2}$	.59	$\frac{17}{32}$	$\frac{17}{32}$	$1\frac{1}{4}$
1 x 1 x $\frac{3}{8}$	.57	$\frac{17}{16}$	$\frac{17}{16}$	$1\frac{1}{8}$
1 x $\frac{3}{4} \times 1$	.68	$\frac{17}{16}$	$\frac{15}{16}$	$\frac{17}{16}$
1 x $\frac{3}{4} \times \frac{3}{4}$	.55	$\frac{15}{16}$	$\frac{13}{16}$	$\frac{15}{16}$
1 x $\frac{3}{4} \times \frac{1}{2}$	.50	$\frac{17}{32}$	$\frac{13}{32}$	$1\frac{1}{4}$
1 x $\frac{1}{2} \times 1$	.62	$\frac{17}{16}$	$1\frac{1}{4}$	$\frac{17}{16}$
1 x $\frac{1}{2} \times \frac{3}{4}$	.52	$\frac{15}{16}$	$1\frac{1}{8}$	$\frac{15}{16}$
1 x $\frac{1}{2} \times \frac{1}{2}$	.47	$\frac{13}{16}$	$1\frac{1}{16}$	$1\frac{1}{4}$
$1\frac{1}{4}$	1.24	$\frac{121}{32}$	$\frac{121}{32}$	$\frac{121}{32}$
$1\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{2}$	1.85	$\frac{113}{16}$	$\frac{113}{16}$	$\frac{123}{32}$
$1\frac{1}{4} \times 1\frac{1}{4} \times 1$	1.15	$\frac{117}{32}$	$\frac{117}{32}$	$\frac{15}{8}$
$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{3}{4}$	.88	$\frac{113}{32}$	$\frac{113}{32}$	$1\frac{1}{2}$
$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{2}$	.88	$\frac{15}{16}$	$\frac{15}{16}$	$\frac{113}{32}$
$1\frac{1}{4} \times 1 \times 1\frac{1}{4}$	.95	$\frac{111}{16}$	$\frac{15}{8}$	$\frac{111}{16}$
$1\frac{1}{4} \times 1 \times 1$	.89	$\frac{117}{32}$	$\frac{17}{16}$	$\frac{15}{8}$
$1\frac{1}{4} \times 1 \times \frac{3}{4}$	.72	$\frac{113}{32}$	$\frac{15}{16}$	$1\frac{1}{2}$
$1\frac{1}{4} \times 1 \times \frac{1}{2}$	.74	$\frac{13}{8}$	$\frac{15}{16}$	$1\frac{1}{2}$
$1\frac{1}{4} \times \frac{3}{4} \times 1\frac{1}{4}$	.89	$\frac{111}{16}$	$1\frac{1}{2}$	$\frac{111}{16}$

60-460 (CONTINUED)

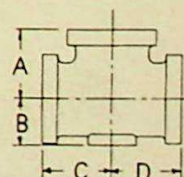
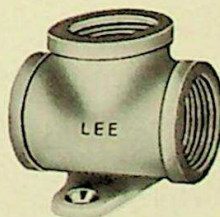
Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1 1/4 x 3/4 x 3/4	.70	1 3/8	1 1/8	1 1/2
1 1/4 x 1/2 x 1 1/4	.87	1 11/16	1 13/32	1 11/16
1 1/2	1.64	1 13/16	1 13/16	1 13/16
1 1/2 x 1 1/2 x 2	2.10	2 3/32	2 3/32	1 29/32
1 1/2 x 1 1/2 x 1 1/4	1.32	1 23/32	1 23/32	1 13/16
1 1/2 x 1 1/2 x 1	1.34	1 9/16	1 9/16	1 23/32
1 1/2 x 1 1/2 x 3/4	1.17	1 7/16	1 7/16	1 27/32
1 1/2 x 1 1/2 x 1/2	1.07	1 11/32	1 11/32	1 17/32
1 1/2 x 1 1/2 x 1/4	1.00	1 3/16	1 3/16	1 3/8
1 1/2 x 1 1/4 x 1 1/2	1.55	1 27/32	1 13/16	1 27/32
1 1/2 x 1 1/4 x 1 1/4	1.32	1 23/32	1 11/16	1 13/16
1 1/2 x 1 1/4 x 1	1.42	1 9/16	1 17/32	1 23/32
1 1/2 x 1 1/4 x 3/4	1.27	—	—	—
1 1/2 x 1 x 1 1/2	1.31	1 7/8	1 13/16	1 7/8
1 1/2 x 1 x 1 1/4	1.22	1 13/16	1 11/16	1 7/8
1 1/2 x 1 x 1	1.14	1 5/8	1 1/2	1 13/16
1 1/2 x 3/4 x 2	—	—	—	—
1 1/2 x 3/4 x 1 1/2	1.20	1 27/32	1 5/8	1 27/32
1 1/2 x 1/2 x 1 1/2	1.15	1 13/16	1 9/16	1 13/16
2	2.20	2 3/32	2 3/32	2 3/32
2 x 2 x 3	4.00	—	—	—
2 x 2 x 2 1/2	3.80	2 5/8	2 5/8	2 13/32
2 x 2 x 1 1/2	2.17	1 29/32	1 29/32	2 3/32
2 x 2 x 1 1/4	2.08	1 25/32	1 25/32	2 1/16
2 x 2 x 1	1.87	1 19/32	1 19/32	1 31/32
2 x 2 x 3/4	1.75	1 15/32	1 15/32	1 27/32
2 x 2 x 1/2	1.78	1 1/2	1 1/2	1 7/8
2 x 1 1/2 x 2	2.23	2 1/8	2 3/32	2 1/8
2 x 1 1/2 x 1 1/2	1.96	1 29/32	1 27/32	2 3/32
2 x 1 1/2 x 1 1/4	1.86	1 25/32	1 23/32	2 1/32
2 x 1 1/2 x 1	1.65	1 25/32	1 23/32	2 1/32
2 x 1 1/4 x 2	2.22	2 1/8	2 1/16	2 1/8
2 x 1 1/4 x 1 1/2	1.70	1 7/8	1 13/16	2 1/16
2 x 1 1/4 x 1 1/4	1.69	1 25/32	1 23/32	2 1/32
2 x 1 1/4 x 1	1.48	1 25/32	1 23/32	2 1/32
2 x 1 x 2	2.18	2 1/8	2 1/16	2 1/8
2 x 1 x 1 1/2	1.81	2 1/32	1 7/8	2 5/32
2 x 1 x 1 1/4	1.70	1 7/8	1 11/16	2
2 x 1 x 1	1.75	2 1/4	2	2 1/4
2 x 3/4 x 2 1/2	2.25	2 7/8	2 5/8	2 5/8
2 x 3/4 x 2	2.25	2 1/8	1 27/32	2 1/8
2 x 3/4 x 1 1/2	1.83	2 7/16	2 1/4	2 1/4
2 1/2	4.40	2 21/32	2 21/32	2 21/32
2 1/2 x 2 1/2 x 2	3.83	2 13/32	2 13/32	2 5/8
2 1/2 x 2 1/2 x 1 1/2	3.60	2 5/32	2 5/32	2 1/2
2 1/2 x 2 1/2 x 1 1/4	3.20	2 1/16	2 1/16	2 7/16
2 1/2 x 2 1/2 x 1	2.90	1 7/8	1 7/8	2 3/8
2 1/2 x 2 x 2 1/2	4.15	2 11/16	2 5/8	2 11/16
2 1/2 x 2 x 2	2.89	2 13/32	2 1/4	2 5/8
2 1/2 x 2 x 1 1/2	3.20	—	—	—
2 1/2 x 1 1/2 x 2 1/2	3.57	2 11/16	2 1/2	2 11/16
3	7.20	3 1/32	3 1/32	3 1/32
3 x 3 x 2 1/2	4.88	2 27/32	2 27/32	3
3 x 3 x 2	4.00	2 17/32	2 17/32	2 29/32
3 x 3 x 1 1/2	4.25	2 5/16	2 5/16	2 13/16
3 x 3 x 1 1/4	3.20	2 3/16	2 3/16	2 3/4

60-460 (CONTINUED)

Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3 x 3 x 1	3.50	2	2	2 21/32
3 x 2 1/2 x 2 1/2	4.73	2 13/16	2 11/16	3
3 x 2 x 3	4.40	3 1/16	2 7/8	3 1/16
3 x 2 x 2 1/2	5.30	3	2 1/2	3 1/4
3 x 2 x 2	3.67	2 1/2	2 1/4	2 7/8
3 1/2	8.50	3 7/16	3 7/16	3 7/16
3 1/2 x 3 1/2 x 2 1/2	6.84	2 3/4	2 3/4	3 1/4
3 1/2 x 3 1/2 x 1 1/2	5.58	2 3/16	2 3/16	2 5/16
3 1/2 x 3 1/2 x 1	4.97	1 15/16	1 15/16	3 1/8
3 1/2 x 3 x 3	7.25	3 1/4	3	3 1/4
3 1/2 x 3 x 2	6.33	2 7/8	2 1/2	3 1/4
4	10.00	3 3/4	3 3/4	3 3/4
4 x 4 x 6	12.00	5	5	4
4 x 4 x 3	9.00	3 5/16	3 5/16	3 5/8
4 x 4 x 2	8.00	2 3/4	2 3/4	3 13/32
4 x 4 x 1 1/2	7.50	2 17/32	2 17/32	3 11/32
4 x 4 x 1	7.25	2 7/32	2 7/32	3 3/16
4 x 3 x 3	8.40	3 5/16	3 3/32	3 5/8
4 x 2 x 4	9.85	3 3/4	3 1/2	3 5/8
4 x 2 x 3	8.00	—	—	—
5	22.78	4 1/2	4 1/2	4 1/2
5 x 5 x 3	14.50	3 1/2	3 1/2	4 7/32
5 x 5 x 1 1/2	10.90	2 3/8	2 3/8	1 7/32
5 x 4 x 2	10.70	—	—	—
6	33.80	5 1/8	5 1/8	5 1/8
6 x 6 x 4	27.50	4 1/8	4 1/8	4 15/16
6 x 6 x 2	26.00	—	—	—
6 x 4 x 4	—	—	—	—
8	56.00	6 9/16	6 9/16	6 9/16
8 x 8 x 4	—	—	—	—
8 x 8 x 2	—	—	—	—

DROP TEES

60-467

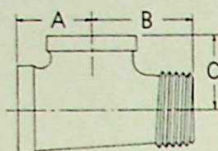
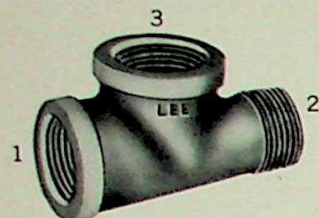


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
3/8	.23	1 3/16	1 7/32	1 3/16	1 3/16
1/2	.42	1	5/8	1	1
3/4	.58	1 3/16	3/4	1 3/16	1 3/16

STREET TEES

60-486

F x M x F

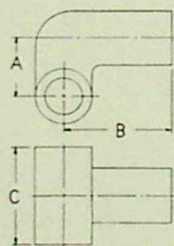
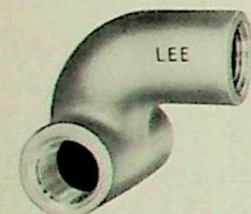


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
$\frac{3}{8}$	.22	$1\frac{3}{16}$	$1\frac{1}{4}$	$1\frac{3}{16}$
$\frac{1}{2} \times \frac{3}{4} \times \frac{3}{4}$	.42	$1\frac{5}{16}$	1	$1\frac{5}{16}$
$\frac{3}{4}$	.48	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{8}$
$\frac{3}{4} \times \frac{3}{4} \times 1$	.70	$1\frac{5}{8}$	$2\frac{1}{2}$	$1\frac{5}{8}$
1	.79	$1\frac{7}{8}$	2	$1\frac{7}{8}$
1 x 1 x $\frac{3}{4}$	.75	$1\frac{7}{8}$	$2\frac{1}{8}$	$1\frac{3}{8}$
1 x $\frac{3}{4}$ x 1	.76	$1\frac{7}{8}$	—	$1\frac{7}{8}$
$1\frac{1}{4}$	1.30	$1\frac{11}{16}$	$2\frac{1}{4}$	$1\frac{11}{16}$
$1\frac{1}{4} \times 1 \times 1\frac{1}{4}$	1.00	$1\frac{11}{16}$	—	$1\frac{11}{16}$
$1\frac{1}{2}$	1.41	$2\frac{7}{32}$	$2\frac{15}{32}$	$2\frac{7}{32}$
$1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{4}$	1.30	$1\frac{13}{16}$	—	$1\frac{3}{4}$
2	2.45	$2\frac{1}{8}$	$2\frac{7}{8}$	$2\frac{1}{8}$

WASH TRAY TEES

60-499

SHORT PATTERN

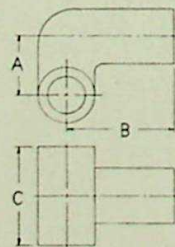
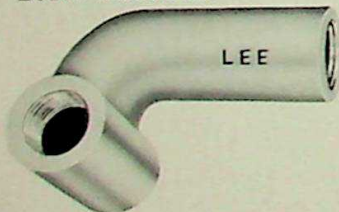


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
$\frac{1}{2}$	.63	$1\frac{1}{4}$	$1\frac{3}{4}$	2

WASH TRAY TEES

60-500

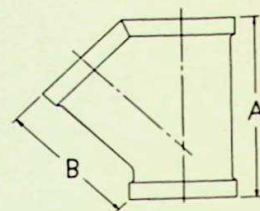
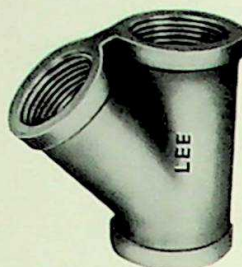
LONG PATTERN



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
$\frac{1}{2}$	.73	$1\frac{1}{4}$	$2\frac{13}{16}$	2

45° Y-BRANCHES

60-840

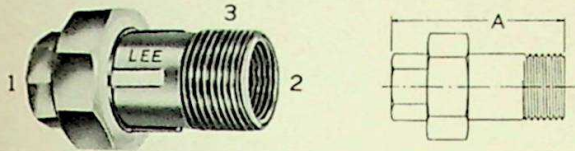


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{1}{4}$	.10	—	—
$\frac{3}{8}$	.18	$1\frac{25}{32}$	$1\frac{9}{32}$
$\frac{1}{2}$	.37	$2\frac{3}{16}$	$1\frac{19}{32}$
$\frac{1}{2} \times \frac{3}{8} \times \frac{3}{8}$	.31	—	—
$\frac{3}{4}$	.60	$2\frac{5}{8}$	$1\frac{29}{32}$
$\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$	.60	—	—
1	1.03	$3\frac{3}{16}$	$2\frac{11}{32}$
1 x $\frac{3}{4}$ x $\frac{3}{4}$	.92	—	—
$1\frac{1}{4}$	1.85	$3\frac{7}{8}$	$2\frac{27}{32}$
$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{3}{4}$	1.20	—	—
$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{2}$	1.16	—	—
$1\frac{1}{4} \times 1 \times 1\frac{1}{4}$	1.40	—	—
$1\frac{1}{4} \times 1 \times 1$	1.30	—	—
$1\frac{1}{4} \times 1 \times \frac{3}{4}$	1.26	—	—
$1\frac{1}{2}$	2.06	$4\frac{1}{4}$	$3\frac{5}{32}$
$1\frac{1}{2} \times 4 \times 3$	—	—	—
$1\frac{1}{2} \times 1\frac{1}{2} \times 1$	2.00	—	—
$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{8}$	1.86	—	—
$1\frac{1}{2} \times 1 \times 1\frac{1}{2}$	1.90	—	—
$1\frac{1}{2} \times 1 \times 1$	1.83	—	—
$1\frac{1}{2} \times \frac{3}{4} \times 1\frac{1}{2}$	—	—	—
2	3.75	5	$3\frac{3}{4}$
2 x 2 x 1	3.35	—	—
2 x 2 x $\frac{3}{4}$	3.25	—	—
2 x $1\frac{1}{2}$ x 2	3.60	—	—
2 x $1\frac{1}{4}$ x $1\frac{1}{4}$	3.45	—	—
2 x 1 x 2	3.50	—	—
$2\frac{1}{2}$	6.85	$6\frac{1}{4}$	$4\frac{3}{4}$
$2\frac{1}{2} \times 2\frac{1}{2} \times 1$	6.80	—	—
$2\frac{1}{2} \times 2 \times 2$	7.68	—	—
3	8.45	$7\frac{1}{4}$	$5\frac{9}{16}$
3 x 3 x $2\frac{1}{2}$	8.36	—	—
3 x 3 x 2	8.30	—	—
3 x 3 x $1\frac{1}{2}$	7.75	—	—
3 x 3 x $1\frac{1}{4}$	7.44	—	—
3 x $2\frac{1}{2}$ x $2\frac{1}{2}$	8.00	—	—
3 x $2\frac{1}{2}$ x $1\frac{1}{4}$	7.40	—	—
3 x $1\frac{1}{2}$ x 3	7.75	—	—
$3\frac{1}{2}$	10.50	—	—
4	14.40	$8\frac{15}{16}$	$6\frac{15}{16}$
4 x 2 x 3	13.00	—	—

STRAIGHT BOILER COUPLINGS

61-651

F x F x M

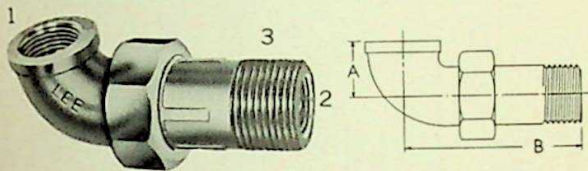


Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{1}{2} \times \frac{1}{2} \times 1$	.72	$3\frac{1}{8}$
$\frac{3}{4} \times \frac{1}{2} \times 1$	.70	$3\frac{1}{8}$
$\frac{3}{4} \times \frac{3}{4} \times 1$	.68	$3\frac{1}{8}$

90° BENT BOILER COUPLINGS

61-655

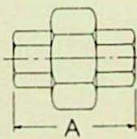
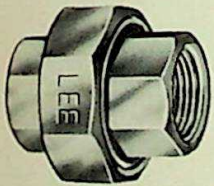
F x F x M



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{1}{2} \times \frac{1}{2} \times 1$	.92	1	$3\frac{9}{16}$
$\frac{3}{4} \times \frac{1}{2} \times 1$	.90	$1\frac{1}{8}$	$3\frac{1}{2}$
$\frac{3}{4} \times \frac{3}{4} \times 1$	.88	1	$3\frac{9}{16}$

UNIONS — STANDARD

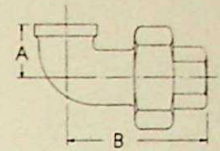
61-657



Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{1}{8}$	.10	$1\frac{7}{16}$
$\frac{1}{4}$	.20	$1\frac{7}{16}$
$\frac{3}{8}$	.36	$1\frac{5}{8}$
$\frac{1}{2}$	.39	$1\frac{13}{16}$
$\frac{3}{4}$	.68	2
1	1.11	$2\frac{3}{16}$
$1\frac{1}{4}$	1.39	$2\frac{7}{16}$
$1\frac{1}{2}$	2.02	$2\frac{5}{8}$
2	3.15	$2\frac{15}{16}$

90° UNION ELBOWS

61-668

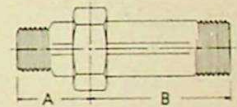
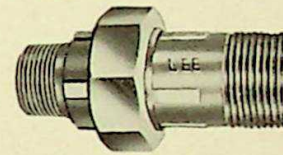


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{8}$	.65	$1\frac{5}{16}$	$1\frac{15}{16}$
$\frac{1}{2}$	.53	$1\frac{1}{8}$	$2\frac{5}{16}$
$\frac{3}{4}$	.84	$1\frac{5}{16}$	$2\frac{9}{16}$
1	1.45	$1\frac{1}{2}$	$2\frac{15}{16}$
$1\frac{1}{4}$	3.00	$1\frac{3}{4}$	$3\frac{3}{8}$
$1\frac{1}{2}$	3.85	$1\frac{15}{16}$	$3\frac{5}{8}$
2	5.14	$2\frac{1}{4}$	$4\frac{1}{8}$

HEATER CONNECTIONS

61-681

M x M

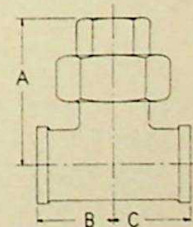


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{4} \times 1$	.84	$1\frac{5}{8}$	$2\frac{1}{8}$

UNION TEES

61-691

UNION ON OUTLET
200 LB. WORKING PRESSURE

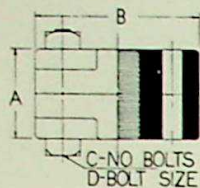


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
$\frac{3}{8}$	.65	—	—	—
$\frac{3}{4}$	1.35	$2\frac{11}{16}$	$1\frac{7}{16}$	$1\frac{7}{16}$
1	2.28	—	—	—

FLANGE UNIONS

62-685

TWO PARTS — BOLTS INCLUDED



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"
1/2	2.12	—	—	—	—
3/4	3.00	—	—	—	—
1	3.85	—	—	—	—
1 1/4	4.60	1 1/8	4 1/4	4	3/8
1 1/2	5.15	1 1/2	4 3/8	5	3/8
2	7.25	1 3/4	5 3/8	5	1/2
2 1/2	8.35	2	6	5	1/2
3	10.00	2	6 1/4	4	5/8
3 1/2	11.50	2 3/8	9 1/4	5	5/8
4	17.00	—	—	—	—
4 1/2	23.00	—	—	—	—
5	29.50	2 7/8	9 1/4	5	5/8
5 1/2	30.00	—	—	—	—
6	36.50	3 1/8	10 1/4	6	5/8

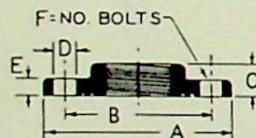
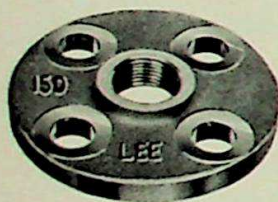
STANDARD BRONZE COMPANION FLANGES

32-342

STEAM 150 LBS./SQ. IN.,

NON-SHOCK COLD WOG 225.

FLANGE DIMENSIONS CONFORM TO ASA B16. 24-1953



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"	Dim. "F"
1/2	.90	3 1/2	2 3/8	1 9/32	5/8	5/16	4
3/4	1.20	3 7/8	2 3/4	5/8	5/8	11/32	4
1	1.55	4 1/4	3 1/8	1 1/16	5/8	3/8	4
1 1/4	1.95	4 5/8	3 1/2	1 3/16	5/8	13/32	4
1 1/2	2.66	5	3 7/8	7/8	5/8	7/16	4
2	4.25	6	4 3/4	1	3/4	1/2	4
2 1/2	5.37	7	5 1/2	1 1/8	3/4	9/16	4
3	8.00	7 1/2	6	1 3/16	3/4	5/8	4
3 1/2	10.25	8 1/2	7	1 1/4	3/4	11/16	8
4	11.00	9	7 1/2	1 5/16	3/4	11/16	8
5	12.50	10	8 1/2	1 7/16	7/8	3/4	8
6	16.50	11	9 1/2	1 9/16	7/8	13/16	8
8	28.80	13 1/2	11 3/4	1 3/4	7/8	15/16	8
10	43.30	16	14 1/4	1 15/16	1	1	12
12	66.70	19	17	2 3/16	1	1 1/16	12

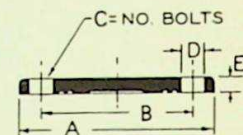
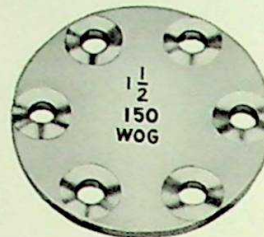
BLIND COMPANION FLANGES — BRONZE

32-343

STEAM 150 LBS./SQ. IN.,

NON-SHOCK COLD WOG 225

FLANGE DIMENSIONS CONFORM TO ASA B16. 24-1953



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"
3/4	1.32	3 7/8	2 3/4	4	5/8	11/32
1	1.80	4 1/4	3 1/8	4	5/8	3/8
1 1/2	2.92	5	3 7/8	4	5/8	7/16
2	4.62	6	4 3/4	4	3/4	1/2
2 1/2	7.13	7	5 1/2	4	3/4	9/16
3	9.17	7 1/2	6	4	3/4	5/8
4	14.49	9	7 1/2	8	3/4	11/16
5	19.44	10	8 1/2	8	7/8	3/4
6	25.00	11	9 1/2	8	7/8	13/16
8	44.40	13 1/2	11 3/4	8	7/8	15/16
10	66.33	16	14 1/4	12	1	1
12	99.20	19	17	12	1	1 1/16

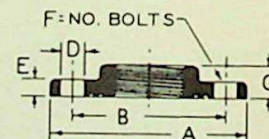
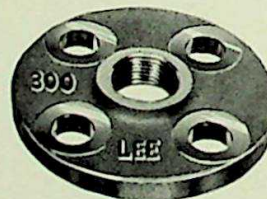
EXTRA HEAVY BRONZE COMPANION FLANGES

32-345

STEAM 300 LBS./SQ. IN.,

NON-SHOCK COLD WOG 500

FLANGE DIMENSIONS CONFORM TO ASA B16. 24-1953

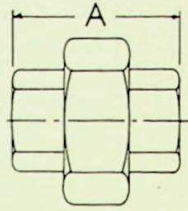
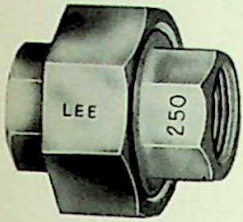


Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"	Dim. "F"
3/4	3.25	4 5/8	3 1/4	5/8	3/4	17/32	4
1	3.25	4 7/8	3 1/2	1 1/16	3/4	19/32	4
1 1/4	4.25	5 1/4	3 7/8	1 3/16	3/4	5/8	4
1 1/2	5.90	6 1/8	4 1/2	7/8	7/8	11/16	4
2	6.50	6 1/2	5	1	3/4	3/4	8
2 1/2	9.80	7 1/2	5 7/8	1 1/8	7/8	13/16	8
3	12.00	8 1/4	6 5/8	1 3/16	7/8	29/32	8
3 1/2	13.50	9	7 1/4	1 1/4	7/8	31/32	8
4	21.00	10	7 7/8	1 5/16	7/8	1 1/16	8
5	24.25	11	9 1/4	1 7/16	7/8	1 1/8	8
6	34.25	12 1/2	10 5/8	1 9/16	7/8	1 3/16	12
8	59.91	15	13	1 3/4	1	1 3/8	12

UNIONS "250"

64-657

250 PSI
400 LBS. NON-SHOCK W.O.G.

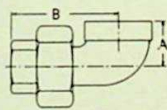
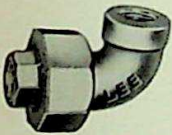


Nominal Size	Approx. Net Wt.	Dim. "A"
$\frac{1}{8}$	.20	$1\frac{7}{16}$
$\frac{1}{4}$	.32	$1\frac{9}{16}$
$\frac{3}{8}$	.46	$1\frac{3}{4}$
$\frac{1}{2}$	.65	2
$\frac{3}{4}$	1.10	$2\frac{1}{8}$
1	1.60	$2\frac{7}{16}$
$1\frac{1}{4}$	2.35	$2\frac{11}{16}$
$1\frac{1}{2}$	—	$2\frac{13}{16}$
2	4.00	$3\frac{3}{16}$
$2\frac{1}{2}$	5.50	$3\frac{5}{8}$

90° UNION ELBOWS "250"

64-668

250 PSI
400 LBS. NON-SHOCK W.O.G.



Nominal Size	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{1}{4}$	.50	$1\frac{3}{16}$	2
$\frac{3}{8}$	.66	$1\frac{5}{16}$	$2\frac{3}{8}$
1	—	$1\frac{1}{2}$	$2\frac{5}{16}$
$1\frac{1}{4}$	—	—	—
$1\frac{1}{2}$	—	$1\frac{3}{4}$	$3\frac{1}{2}$

LEE offers a complete line of valves, applicable to every low pressure water and gas situation. The body of each LEE valve is a bronze casting, precisely machined for leak-proof assembly. Every valve is air-tested under water in both open and closed positions to insure its dependability in service.

LEE compression-type valves feature a Buna-N sealing washer which resists oil, chemicals, high temperatures and the deteriorating effects of ordinary ageing. The washer is held in place with a stainless steel screw which cannot rust.

Both seats and stems of LEE ground key valves are precision machined then ground together for a perfect seal.

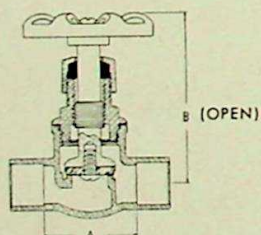
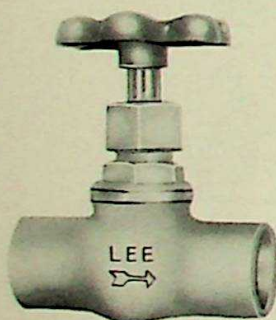
When ordering, please refer to figure numbers.



70-710 STOP VALVES

72-710 STOP & WASTE VALVES

C x C



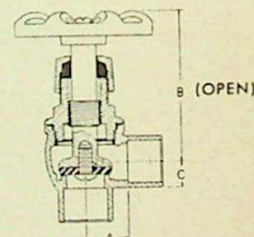
(70-710 SHOWN)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
$\frac{3}{8}$	5	60-100	.41	$1\frac{3}{16}$	$2\frac{29}{32}$
$\frac{1}{2}$	5	60-100	.43	$1\frac{3}{8}$	$2\frac{15}{16}$
$\frac{3}{4}$	5	60-100	.53	$1\frac{1}{4}$	$2\frac{15}{16}$
1	4	20-40	1.21	$1\frac{15}{16}$	$3\frac{15}{16}$

70-711 ANGLE STOP VALVES

72-711 ANGLE STOP & WASTE VALVES

C x C



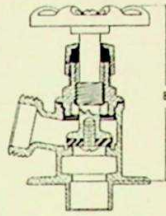
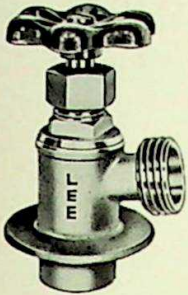
(70-711 SHOWN)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
$\frac{1}{2}$	5	60-100	.36	$1\frac{9}{32}$	$2\frac{5}{8}$	$\frac{3}{8}$
$\frac{3}{4}$	5	60-100	.50	$1\frac{9}{32}$	$2\frac{3}{4}$	$1\frac{3}{32}$

SILCOCKS

70-713

C x HOSE

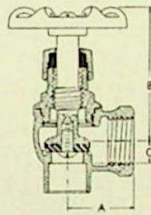


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "B"
1/2	5	60-100	.54	3 1/2
3/4	5	60-100	.56	3 1/2

70-716 ANGLE STOP VALVES

72-716 ANGLE STOP & WASTE VALVES

C x F



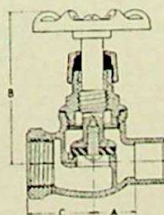
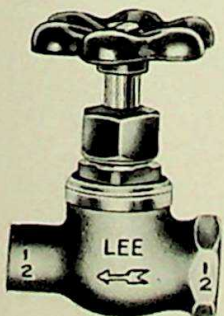
(72-716 SHOWN)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	5	60-100	.40	1 3/32	2 5/8	3/8
3/4	5	60-100	.53	1 5/32	2 3/4	13/32

70-718 STOP VALVES

72-718 STOP & WASTE VALVES

F x C



(70-718 SHOWN)

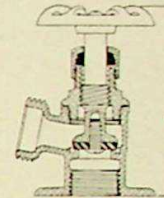
70-718 & 72-718 (CONTINUED)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	5	60-100	.49	1 1/16	2 15/16	1 3/32
3/4	5	60-100	.60	5/8	2 15/16	1 3/32

SILCOCKS

70-721

F x HOSE

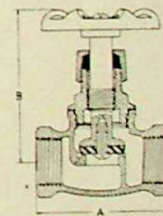


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "B"
1/2	5	60-100	.49	3 7/16
3/4	5	60-100	.54	3 19/32

70-723 STOP VALVES

72-723 STOP & WASTE VALVES

F x F



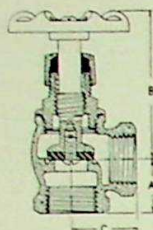
(70-723 SHOWN)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8	5	60-100	.48	1 15/16	2 29/32
1/2	5	60-100	.55	2 3/16	2 15/16
3/4	5	60-100	.68	2 5/16	2 15/16
1	1	20	1.43	3 1/8	4 1/16

70-724 ANGLE STOP VALVES

72-724 ANGLE STOP & WASTE VALVES

F x F

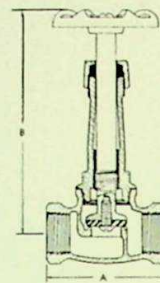
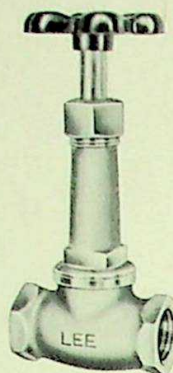


(72-724 SHOWN)

Nom. Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
1/2	5	60-100	.49	7/8	2 13/16	1 1/32
3/4	5	60-100	.59	1 1/32	2 29/32	1 3/16

70-726 TILE STOP VALVES

F x F

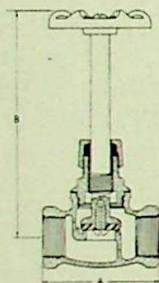
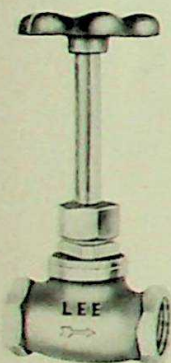


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	1	30	.72	2 3/16	4 11/16
3/4	1	30	.82	2 5/16	4 1/2

STOP VALVES, LONG STEM

70-725

F x F

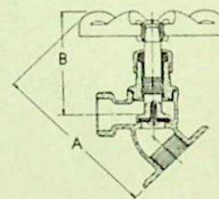
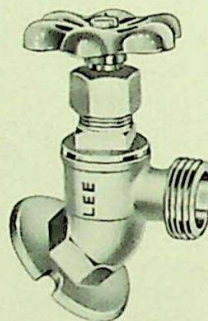


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	1	30	.64	2 3/16	4 3/4
3/4	1	30	.73	2 5/16	4 1/2

ANGLE SILLCOCKS

70-727

F x HOSE

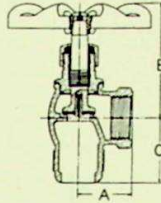
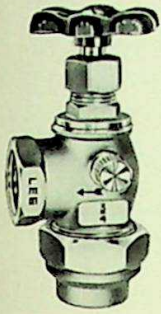


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
1/2	5	60-100	.57	3 3/4	2 7/16

70-729 FLARED ANGLE STOP VALVES

72-729 FLARED ANGLE STOP & WASTE VALVES

C x F



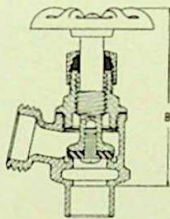
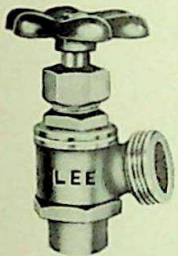
(72-729 SHOWN)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"	Dim. "C"
3/4	—	—	.95	1 1/2	2 29/32	1 17/32

BOILER DRAINS

71-712

C x HOSE

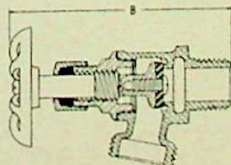
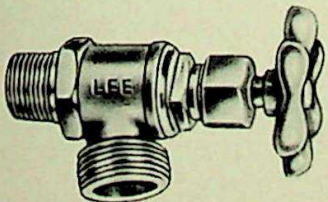


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "B"
1/2	5	60-100	.44	3 1/4
3/4	5	60-100	.48	3 1/4

BOILER DRAINS

71-717

M x HOSE



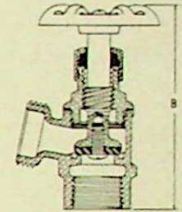
71-717 (CONTINUED)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "B"
1/2	5	60-100	.48	3 11/32
3/4	5	60-100	.50	3 11/32

BOILER DRAINS

71-720

F x HOSE

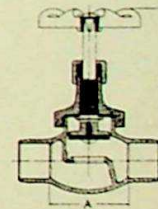
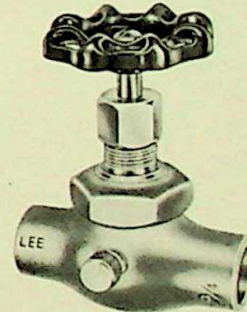


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "B"
1/2	5	60-100	.49	3 5/8

73-710 HUSKY STOP VALVES

74-710 HUSKY STOP & WASTE VALVES

C x C



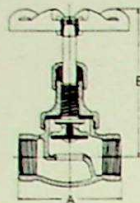
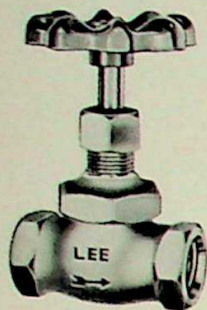
(74-710 SHOWN)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8	5	60-100	.54	1 3/8	3 1/4
1/2	5	60-100	.61	1 1/2	3 13/32
3/4	1	20	1.10	1 7/8	4 1/16
1	1	8	1.97	2 1/2	4 21/32

73-723 HUSKY STOP VALVES

74-723 HUSKY STOP & WASTE VALVES

F x F

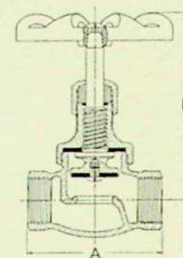


(73-723 SHOWN)

Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8	—	—	—	2	3 1/4
1/2	1	48	.69	2 1/4	3 13/32
3/4	1	20	1.15	2 3/4	3 15/16
1	—	—	—	3 1/8	4 17/32

76-723 AUTOMATIC STOP & WASTE VALVES

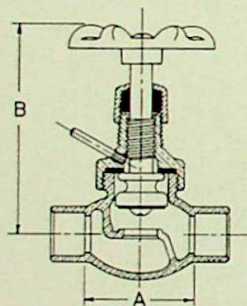
F x F



Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8	—	—	—	2	3 1/4
1/2	—	—	.69	2 1/4	3 13/32
3/4	—	—	1.15	2 3/4	3 15/16
1	—	—	—	3 1/8	4 17/32

76-710 AUTOMATIC STOP & WASTE VALVES

C x C

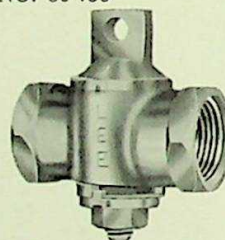


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.	Dim. "A"	Dim. "B"
3/8	—	—	.54	1 3/8	3 1/4
1/2	—	—	.61	1 1/2	3 13/32
3/4	—	—	1.10	1 7/8	4 1/16
1	—	—	1.97	2 1/2	4 21/32

FLAT HEAD GAS STOPS

80-735 WITH CHECK

FOR LESS CHECK SPECIFY
NO. 80-736

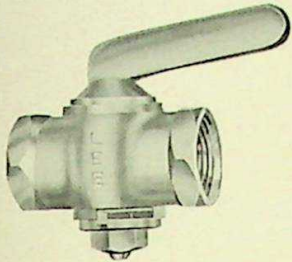


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/4	25	150	.42
3/8	25	150	.40
1/2	20	120	.47
3/4	15	90	.65
1	—	50	1.16
1 1/4	—	30	1.80
1 1/2	—	20	2.60
2	—	10	5.00

LEVER HANDLE GAS STOPS

80-737 WITH CHECK

FOR LESS CHECK SPECIFY
NO. 80-738

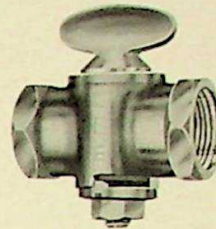


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/4	—	—	.48
3/8	20	120	.44
1/2	15	90	.54
3/4	12	60	.70
1	—	40	1.45
1 1/4	—	25	1.87
1 1/2	—	18	2.88
2	—	8	5.25

TEE HANDLE GAS STOPS

80-741 WITH CHECK

FOR LESS CHECK SPECIFY
NO. 80-742

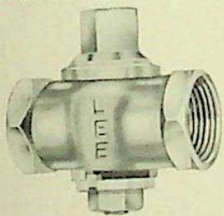


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/4	—	—	.44
3/8	—	—	.42
1/2	—	120	.50
3/4	15	90	.66
1	—	50	1.37
1 1/4	—	30	1.77
1 1/2	—	20-30	2.63
2	—	10	5.30

SQUARE HEAD GAS STOPS

80-739 WITH CHECK

FOR LESS CHECK SPECIFY
NO. 80-740

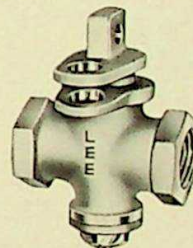


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/4	—	—	.42
3/8	25	150	.40
1/2	20	120	.48
3/4	15	90	.66
1	—	50	1.31
1 1/4	—	30	1.70
1 1/2	—	20	2.60
2	—	10	5.40

FLAT HEAD GAS STOPS

80-768

LOCK

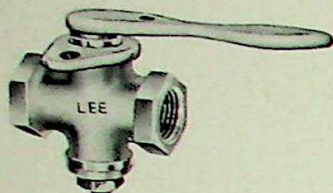


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	10	60	.78
3/4	10	60	.92

LEVER HANDLE GAS STOPS

80-769

LOCK

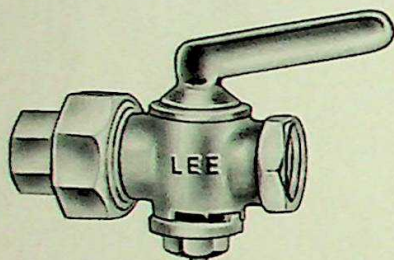


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	10	60	.82
3/4	8	48	1.00

LEVER HANDLE UNION GAS STOPS

80-787

WITH CHECK



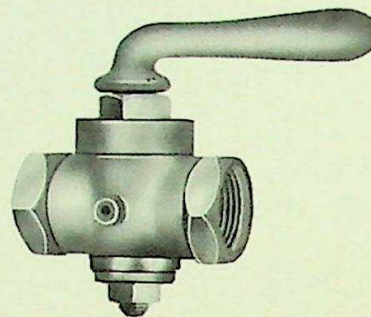
Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	10	60	.71
3/4	8	48	1.27

LEVER HANDLE CAP PATTERN STOP & WASTES

84-801

LESS HANDLE SPECIFY NO. 84-803;
STOP LESS WASTE SPECIFY 82-801;

STOP LESS HANDLE SPECIFY
82-803; SHIPPING LESS HANDLE,
SUBTRACT 19.5 LBS. PER 100
VALVES.



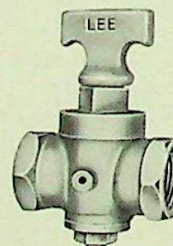
Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	12	60	.89
3/4	8	48	1.09
1	—	20	2.60

TEE HANDLE CAP PATTERN STOP & WASTES

84-802

LESS HANDLE SPECIFY NO. 84-803;
STOP LESS WASTE SPECIFY 82-802;

STOP LESS HANDLE SPECIFY
82-803; SHIPPING LESS HANDLE,
SUBTRACT 15.5 LBS. PER 100
VALVES.



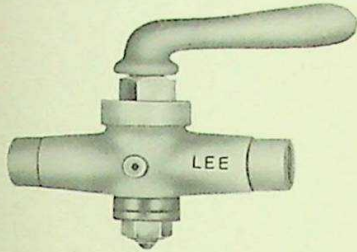
Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	15	90	.85
3/4	10	60	1.05
1	—	20	2.55

LEVER HANDLE COPPER CAP PATTERN STOP & WASTES

84-805

LESS HANDLE SPECIFY 84-807;
STOP LESS WASTE SPECIFY 82-805;

STOP LESS HANDLE SPECIFY
82-807; SHIPPING LESS HANDLE,
SUBTRACT 19.5 LBS. PER 100
VALVES.



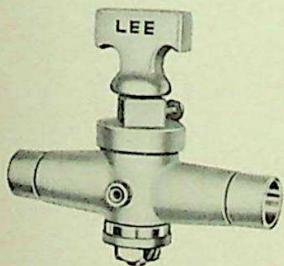
Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	12	48	.71
3/4	10	30	1.07

TEE HANDLE COPPER CAP PATTERN STOP & WASTES

84-806

LESS HANDLE SPECIFY 84-807;
STOP LESS WASTE SPECIFY 82-806;

STOP LESS HANDLE SPECIFY
82-807; SHIPPING LESS HANDLE,
SUBTRACT 15.5 LBS. PER 100
VALVES.

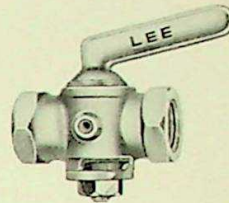


Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	12	48	.58
3/4	5	30	.78

SOLID LEVER HANDLE STOP & WASTES

84-811

WITH CHECK
FOR STOP LESS WASTE
SPECIFY 82-811



Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	15	90	.58
3/4	10	60	.78

SOLID TEE HANDLE STOP & WASTES

84-813

WITH CHECK
FOR STOP LESS WASTE
SPECIFY NO. 82-813



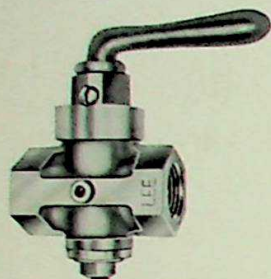
Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	15	90	.55
3/4	10	60	.75

LEVER HANDLE HEX PATTERN STOP & WASTES

85-801

LESS HANDLE SPECIFY 85-803;
STOP LESS WASTE SPECIFY 83-801;

STOP LESS HANDLE SPECIFY
83-803; SHIPPING LESS HANDLE,
SUBTRACT 19.5 LBS. PER 100
VALVES.



Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	8	48	1.04
3/4	5	30	1.61

TEE HANDLE HEX PATTERN STOP & WASTES

85-802

LESS HANDLE SPECIFY 85-803;
STOP LESS WASTE SPECIFY 83-802;

STOP LESS HANDLE SPECIFY
83-803; SHIPPING LESS HANDLE,
SUBTRACT 15.5 LBS. PER 100
VALVES.



Nominal Size	Pkg. Quan.	Mast. Ctn.	Approx. Net Wt.
1/2	8	48	1.00
3/4	5	30	1.57

GENERAL INFORMATION

In order to avoid any possible confusion or delay, make sure that your order includes:

- (1) *catalog numbers*
- (2) *nominal sizes*
- (3) *general descriptions*
- (4) *shipping instructions*

Merchandise should be checked immediately upon receipt. Any errors in the shipment must be reported to LEE within ten days!

Prices as of the date of shipment will apply. Prices are subject to change without notice.

Possession of a catalog or price list may not be construed as an offer by LEE to sell. All orders are subject to acceptance by our home office in Anniston, Alabama.

No invoice will be rendered for less than \$1.00.

RETURNS

We cannot assume responsibility for goods returned without our authority. There will be an inspection and handling charge of 15%, plus freight both ways, on approved returned material.

FREIGHT

Freight will be prepaid on shipments weighing 400 pounds, net, or more. We reserve the right to control the routing of shipments. If order specifies routing, the customer must be liable for the difference in rate.

TERMS

2% cash discount if invoice is paid on or before 10th of the month following shipment, net 45 days from date of shipment.





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(Area Code 617)

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(Area Code 513)

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